A1775-34 12/93

1992 Data

gas facts

1992 DATA

■ ENERGY RESERVES ■ NATURAL GAS SUPPLY

■ UNDERGROUND STORAGE

■ DISTRIBUTION AND TRANSMISSION

■ ENERGY CONSUMPTION

■ CUSTOMERS ■ SALES ■ TRANSPORTATION VOLUMES

■ REVENUES ■ PRICES

■ APPLIANCE AND HOUSING DATA

■ FINANCE ■ PERSONNEL DATA

■ GLOSSARY ■ INDEX

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GAS FACTS
1992 DATA

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AMERICAN GAS ASSOCIATION

The American Gas Association assumed its present status as the gas utility industry trade association in 1927, after a merger of two predecessor organizations. It renders assistance to the gas utility industry so that the industry may serve its customers more efficiently. Dependence is placed upon the voluntary cooperation of gas companies and established committees composed of representatives from these companies.

The Association recognizes the need for factual information regarding the gas industry for the use, not only of industry organizations, but also interested outside publics. Its statistical efforts are a vital part of this function, and the publication of Gas Facts is one result of these efforts. The statistical activities of A.G.A. are performed by the Department of Statistics with guidance by the Statistics and Load Forecast Methods Committee.

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INTRODUCTION

GENERAL

This publication contains detailed statistics for 1992 and summary statistics for 1975–1992 for the gas utility industry which by definition, consists of the companies engaged in natural gas distribution and transmission. The publication also contains relevant data on the gas producing segment of the industry and key statistics on other energy industries.

Production data of the gas industry, and pertinent other energy industry data, are also included. Gas volumes are expressed in millions of cubic feet (at 14.73 psia and 60°F unless otherwise noted) and in British thermal units (Btu) to permit direct comparison with other energy data. A conversion table is included as Appendix B.

Appendix C contains a sample listing of gas utility companies according to their classification as distribution, transmission, integrated, or in some cases, combination companies. These classifications are defined in the glossary, Appendix A. Appendix D contains consumption data gathered by the Gas Requirements Committee. Throughout the publication totals may not add due to independent rounding.

The user should be aware that there has developed a sizeable transportation market which directly affects gas utility sales quantities, revenues and number of customers. Although total pipeline throughput may remain the same, as transportation volumes to end-users increase, gas utility sales quantities to end-users will decrease.

Data presented in *Gas Facts,* broken down by company type, are not necessarily comparable from year to year. Acquisitions, mergers and corporate reorganizations continue to cause the number of companies in any given category to vary from year to year. Some of these changes are sizeable and can cause a dramatic shift in the data reported for a specific category from year to year.

SOURCES OF INFORMATION

Most of the information contained in this volume is developed from data contained in the Uniform Statistical Report, a detailed information form prepared annually by both electric and gas utility companies. Information is also derived from reports filed with regulatory commissions, from financial publications, and from statistical reports prepared by government and private agencies. For 1992, the gas utility companies participating in the Uniform Statistical Report survey represented 94 percent of total gas utility industry sales. Data for non-reporting companies, whose sales represent the remaining 6 percent, were estimated based on recent historical experience.

Employee accident data were taken from the A.G.A. *Natural Gas Utility and Transmission Industry Occupational Injury and Illness Statistics* report and the National Safety Council *Accident Facts*. Estimates of proved reserves of natural gas, natural gas liquids and petroleum were taken from the U.S. Department of Energy report *U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves,* 1992 annual report. Since this time series only begins in 1977, A.G.A., API and CPA data on natural gas reserves, 1960–1979, are presented. Statistics on underground storage operations were developed by the A.G.A. Committee on Underground Storage. Data for gas spaceheating customers were taken from the A.G.A. *Residential Natural Gas Market Survey.*

ACKNOWLEDGEMENTS

Our thanks go to those companies participating in the Uniform Statistical Report information gathering effort. Their cooperation and support are the essential elements which have made this publication a primary source of gas utility industry data, and an important industry reference. The cooperation of the public and governmental agencies credited in tables is also greatly appreciated.

Credit also goes to Director, Statistical Services Ellen Hahn, Manager, Statistical Services Donna Baranik, Project Statisticians Carole Williams-Hopkins and Craig Davis, and Supply and Statistics Secretary Lisa Ramey. Also contributing to the effort were the A.G.A. Computer Services and Publications/Graphic Services Departments; and Bob Kalisch—Senior Director, Gas Supply and Statistics.

SECTION 1
1992 IN REVIEW

Natural gas production in 1992 increased 1.3 percent from 1991. Imports of gas, primarily from Canada, reached a record level of 1.7 Tcf. Gas well completions in 1992 decreased 44.4 percent compared with the 1991 level.

Total proved reserves at year-end 1992 were 165.0 Tcf, down from the 167.1 Tcf level at year-end 1991. Overall, proved reserves of natural gas in the lower-48 states were 1.2 percent lower in 1992 than they were in 1991. Replacement of natural gas production by reserve additions was 88.3 percent in 1992 as compared to the ten year average of 93 percent of production.

Distribution and transmission facilities increased in 1992 to 1,253.9 thousand miles of distribution main and pipeline, while storage capacity was approximately 7.6 Tcf. Thus the gas utility industry's deliverability capacity continues to be matched to the steadily expanding number of gas customers. Average gas utility customers increased in 1992 to 56,132,300.

Gas utility sales increased 3.4% in 1992 to 9,06.5 trillion Btu. Residential sales increased 3.3%, commercial sales increased 0.5% and industrial sales rose 5.4% from 1991 levels.

Reported gas utility transportation deliveries to end-users totaled 5,243.4 trillion Btu in 1992, up 1.0 percent from 1991.

The average retail natural gas price increased 0.2% in 1992 compared with 1991. The residential price increased 0.5%, commercial price rose 1.4% and the industrial price decreased 1.0%.

TABLE 1-1
COMPARISON OF GAS UTILITY INDUSTRY CUSTOMERS, SALES, REVENUES AND PRICES BY CLASS OF SERVICE, 1991 AND 1992

	1991[R]	1992	Percentage Change
CUSTOMERS—TOTAL[a]	**55,174,000**	**56,132,300**	+ **1.7**
Residential	50,634,200	51,524,600	+ 1.7
Commercial	4,321,800	4,396,900	+ 1.7
Industrial	167,700	165,300	− 1.7
Other	50,300	45,500	− 9.5
SALES—TOTAL[b]	**9,601,400**	**9,906,500**	+ **3.2**
Residential	4,546,300	4,694,400	+ 3.3
Commercial	2,198,100	2,208,700	+ 0.5
Industrial	2,631,300	2,772,200	+ 5.4
Other	225,700	231,200	+ 2.4
REVENUES—TOTAL[c]	**$44,647,379**	**$46,178,067**	+ **3.4**
Residential	25,728,572	26,701,927	+ 3.8
Commercial	10,668,880	10,864,830	+ 1.8
Industrial	7,576,238	7,913,202	+ 4.4
Other	673,689	698,108	+ 3.6
PRICES—TOTAL[d]	**$4.65**	**$4.66**	+ **0.2**
Residential	5.66	5.69	+ 0.5
Commercial	4.85	4.92	+ 1.4
Industrial	2.88	2.85	− 1.0
Other	2.98	3.02	+ 1.3

a. Yearly averages.
b. Sales quantities in billions of Btu.
c. Revenues in thousands of dollars.
d. Prices in dollars per million Btu.
R–Revised.

SECTION 2
ENERGY RESERVES

Prior to 1980, data on reserves of oil, natural gas and gas liquids were taken from *Reserves of Crude Oil, Natural Gas Liquids, and Natural Gas in the United States and Canada,* an annual report published jointly by A.G.A., the American Petroleum Institute (API) and the Canadian Petroleum Association (CPA). The publication of this report was discontinued after the year-end 1979 report was released in June, 1980. Since 1977, however, the Energy Information Administration (EIA) within the Department of Energy has published an annual reserves report. Data listed below and in several of the tables in this section were taken from the EIA series. For years prior to 1980 A.G.A./API/CPA data are also listed for natural gas reserves.

Reserves as of December 31

	1992	% Change 92/91
Natural Gas		
(Billions of cubic feet)		
Total Proved Reserves	165,015	− 1.2
% of Non-Associated, estimated	74.0	
% of Associated-Dissolved, estimated	26.0	
Underground Storage*	6,369	+ 20.2
Total Discoveries	7,048	− 6.5
Production	17,423	+ 1.3
Natural Gas Liquids		
(Millions of barrels)		
Total Proved Reserves	7,451	− 0.2
Total Discoveries	274	+ 1.9
Production	773	+ 2.5
Crude Oil		
(Millions of barrels)		
Total Proved Reserves	23,745	− 3.8
Total Discoveries	484	− 12.6
Production	2,446	− 2.6

*Not included in Total Reserves. Data taken from "The Underground Storage of Gas in the United States and Canada."

CHART 1-1

SELECTED GAS INDUSTRY HIGHLIGHTS OF 1992

	1992
Proved Reserves	165.0Tcf
Customers	56.1 Million
Utility Sales	9.9 Quads
Wellhead Price	$1.86/Mcf
Resale Price	$3.48/MMBtu
End Use Price	$4.66/MMBtu
Miles of Main	1,253,924
Est. Ultimate Storage Capacity	7,582 Tcf

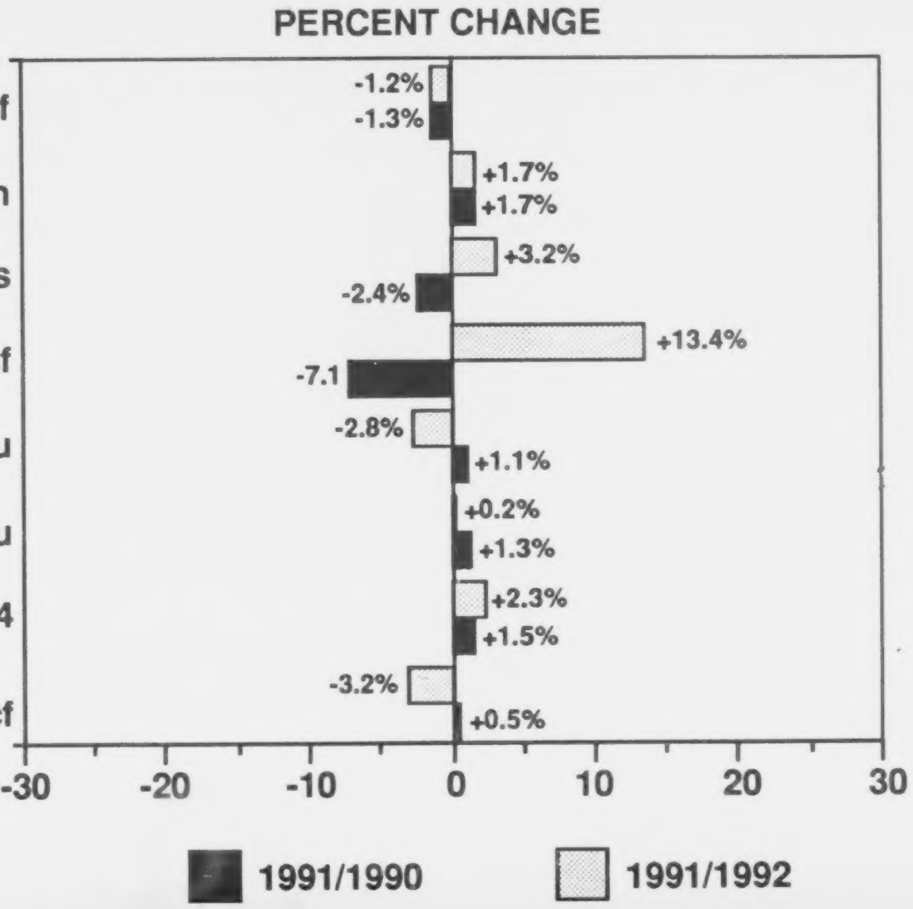


TABLE 2-1
SUMMARY OF ANNUAL ESTIMATES OF PROVED RESERVES OF NATURAL GAS IN THE UNITED STATES, 1960–1979[a]

(Millions of Cubic Feet)

	Changes in Reserves during year										
Year	Extensions	Extensions and Revisions	Revisions	New Field Discoveries	Discoveries of New Fields and New Pools in Old Fields	New Reservoir Discoveries	Total of Discoveries, Revisions and Extensions	Net Change in Underground Storage	Preliminary Net Production during Year[c]	Estimated Proved Reserves as of End of Year	Change over Previous Year
1960	—	7,293,015	—	—	6,600,963	—	13,893,978	281,273	13,019,356	262,326,326	1,155,895
1961	—	10,258,692	—	—	6,907,729	—	17,166,421	159,544	13,378,649	266,273,642	3,947,316
1962	—	13,184,794	—	—	6,299,164	—	19,483,958	159,231	13,637,973	272,278,858	6,005,216
1963	—	12,586,733	—	—	5,577,934	—	18,164,667	253,733	14,546,025	276,151,233	3,872,375
1964	—	13,342,838	—	—	6,909,301	—	20,252,139	195,110	15,347,028	281,251,454	5,100,221
1965	—	14,775,570	—	—	6,543,709	—	21,319,279	150,483	16,252,293	286,468,923	5,217,469
1966	9,224,745	—	4,937,962	2,947,329	—	3,110,396	20,220,432	134,523	17,491,073	289,332,805	2,863,882
1967	9,538,584	—	6,570,578	3,170,520	—	2,524,651	21,804,333	151,403	18,380,838	292,907,703	3,574,898
1968	7,758,821	—	3,016,146	1,376,429	—	1,545,612	13,697,008	118,569	19,373,428	287,349,852	(5,557,851)
1969	5,800,489	—	(1,238,261)	1,769,557	—	2,043,219	8,375,004	107,169	20,723,190	275,108,835	(12,241,017)
1970	6,158,168	—	(99,721)	27,770,223[b]	—	3,367,689	37,196,359	402,018	21,960,804	290,746,408	15,637,573
1971	6,374,706	—	(1,227,400)	1,317,574	—	3,360,541	9,825,421	310,301	22,076,512	278,805,618	(11,940,790)
1972	6,153,683	—	(1,077,791)	1,462,539	—	3,096,132	9,634,563	156,563	22,511,898	266,084,846	(12,720,772)
1973	6,177,286	—	(3,474,756)	2,152,151	—	1,970,368	6,825,049	(354,282)	22,605,406	249,950,207	(16,134,639)
1974	5,847,251	—	(1,333,285)	2,013,745	—	2,151,473	8,679,184	(178,424)	21,318,470	237,132,497	(12,817,410)
1975	6,027,433	—	383,449	2,423,382	—	1,649,424	10,483,688	302,561	19,718,570	228,200,176	(8,932,321)
1976	5,337,707	—	(1,197,119)	1,421,013	—	1,993,867	7,555,468	(187,550)	19,542,020	216,026,074	(12,174,102)
1977	6,601,229	—	983,551	2,114,505	—	2,152,639	11,851,924	446,930	19,447,050	208,877,878	(7,148,196)
1978	6,733,441	—	118,436	1,719,938	—	2,014,329	10,586,144	148,733	19,311,048	200,301,707	(8,576,171)
1979	7,113,113	—	2,907,551	2,575,779	—	1,689,504	14,285,947	239,323	19,910,353	194,916,624	(5,385,083)

a. Volumes are calculated at a pressure base of 14.73 psi, absolute, and at a standard temperature of 60°F.

b. Includes the estimates of proved reserves in the Prudhoe Bay Permo-triassic reservoir discovered in 1968 and not previously included.

c. "Preliminary Net Production" equals estimated gross withdrawals less (1) gas reinjected into producing reservoirs for cycling and pressure maintenance, and (2) natural gas liquids. "Preliminary Net Production" differs from U.S. Bureau of Mines "Marketed Production" in that (1) the sources from which they are derived are different, and (2) "Marketed Production" includes natural gas liquids.

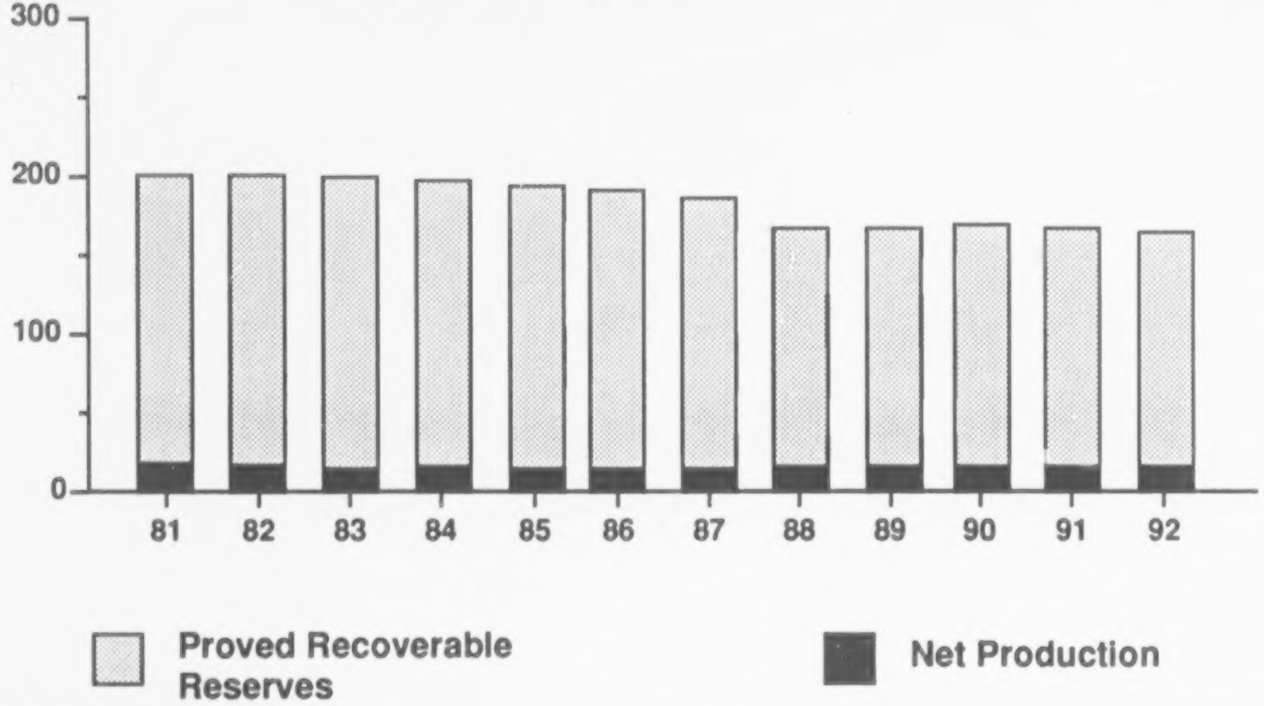
( ): Denotes negative value.

Source: A.G.A., American Petroleum Institute and Canadian Petroleum Association. *Reserves of Crude Oil, Natural Gas in the United States and Canada as of December 31, 1979.*

Note: Publication of the above mentioned source ceased with the December 31, 1979 edition. See Table 2-2 for EIA information covering 1976-1989.

PROVED RECOVERABLE RESERVES & NET PRODUCTION OF NATURAL GAS IN THE UNITED STATES

(TRILLIONS OF CUBIC FEET)



REFERENCE: TABLES 2-1, 2-2

TABLE 2-2

SUMMARY OF ANNUAL ESTIMATES OF PROVED RESERVES OF NATURAL GAS IN THE UNITED STATES, 1977–1992

(Billions of Cubic Feet)

	Changes in Reserves During Year									
Year	Net of Corrections and Adjustments (1)	Revision Increases (2)	Revision Decreases (3)	Extensions to Old Reservoirs (4)	New Reservoir Discoveries in Old Fields (5)	New Field Discoveries (6)	Total Discoveries^{a} (7)	Production Dry (8)	Proved Reserves^{b} 12/31 (9)	Net Change From Prior Year (10)
1977	(20)^{c}	13,691	15,296	8,129	3,301	3,173	14,603	18,843	207,413	(5,865)
1978	2,429	14,969	15,994	9,582	4,579	3,860	18,021	18,805	208,033	620
1979	(2,264)	16,410	16,629	8,950	2,566	3,188	14,704	19,257	200,997	(7,036)
1980	1,201	16,972	15,923	9,357	2,577	2,539	14,473	18,699	199,021	(1,976)
1981	1,627	16,412	13,813	10,491	2,998	3,731	17,220	18,737	201,730	2,709
1982	2,378	19,795	19,340	8,349	3,419	2,687	14,455	17,506	201,512	(218)
1983	3,090	17,602	17,617	6,909	2,965	1,574	11,448	15,788	200,247	(1,265)
1984	(2,241)	17,841	14,712	8,299	2,686	2,536	13,521	17,193	197,463	(2,784)
1985	(1,708)	18,775	16,304	7,169	2,960	999	11,128	15,985	193,369	(4,094)
1986	1,320	21,269	17,697	6,065	1,771	1,099	8,935	15,610	191,586	(1,783)
1987	1,268	17,527	14,231	4,587	1,499	1,089	7,175	16,114	187,211	(4,375)
1988	2,193	23,367	38,427^{d}	6,803	1,909	1,638	10,350	16,670	168,024^{d}	(19,187)
1989	3,013	26,673	23,643	6,339	2,243	1,450	10,032	16,983	167,116	(908)
1990	1,557	18,981	13,443	7,952	2,412	2,004	12,368	17,233	169,346	2,230
1991	2,960	19,890	15,474	5,090	1,604	848	7,542	17,202	167,062	(2,284)
1992	2,235	18,055	11,962	4,675	1,724	649	7,048	17,423	165,015	(2,047)

a. Col. 4 + Col. 5 + Col. 6 = Col. 7.

b. Proved reserves = Prior year Col. 9 + Col. 1 + Col. 2 − Col. 3 + Col. 7 − Col. 8.

c. Consists only of reported corrections.

d. An unusually large revision decrease to North Slope dry natural gas reserves was made in 1988.

Note: "Old" means discovered in a prior year. "New" means discovered during the report year.

Source: U.S. Department of Energy, Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves,* 1992 Annual Report.

TABLE 2-3
CHANGES IN ESTIMATED PROVED RESERVES OF NATURAL GAS, IN THE UNITED STATES BY STATE, DURING 1992[a]

(Billions of Cubic Feet)

State and Subdivision	Published Proved Reserves 12/31/91	Changes in Reserves During 1992		
		Net of Corrections and Adjustments	Revision Increases	Revision Decreases
(1) Total United States	**167,062**	**2,235**	**18,055**	**11,962**
(2) Alabama Onshore	5,414	159	545	191
(3) Alaska	9,553	289	177	21
(4) Arkansas	1,669	183	182	175
(5) California	3,004	(24)	185	164
(6) Coastal Region Onshore	216	6	16	15
(7) Los Angeles Basin Onshore	115	(13)	13	8
(8) San Joaquin Basin Onshore	2,614	(20)	138	134
(9) State Offshore	59	3	18	7
(10) Colorado	5,767	(159)	718	288
(11) Florida	38	6	11	1
(12) Kansas	9,358	184	1054	385
(13) Kentucky	1,155	(107)	73	12
(14) Louisiana	10,912	(273)	1,472	1,222
(15) North	2,384	(41)	483	234
(16) South Onshore	7,504	(111)	847	835
(17) State Offshore	1,024	(121)	142	153
(18) Michigan	1,334	95	148	248
(19) Mississippi	1,057	(102)	121	121
(20) Montana	831	58	22	21
(21) New Mexico	18,539	313	1,757	898
(22) East	3,206	79	532	287
(23) West	15,333	234	1,225	611
(24) New York	331	9	23	17
(25) North Dakota	472	44	61	57
(26) Ohio	1,181	89	21	27
(27) Oklahoma	14,725	(121)	1,988	1,263
(28) Pennsylvania	1,629	28	136	155
(29) Texas	36,174	903	3,743	3,235
(30) District 1	1,030	37	95	102
(31) District 2 Onshore	1,393	37	231	129
(32) District 3 Onshore	2,885	(67)	401	312
(33) District 4 Onshore	7,048	294	881	1,001
(34) District 5	1,863	51	55	105
(35) District 6	5,233	50	604	533
(36) District 7B	423	97	9	6
(37) District 7C	3,291	56	324	213
(38) District 8	6,133	109	581	376
(39) District 8A	1,073	191	94	32
(40) District 9	738	(26)	45	37
(41) District 10	4,589	137	348	304
(42) State Offshore	475	(63)	75	85
(43) Utah	1,702	136	[illegible]	99
(44) Virginia	225	196	[illegible]	1
(45) West Virginia	2,528	(153)	163	75
(46) Wyoming	9,941	568	996	437
(47) Federal Offshore[b]	29,448	(71)	3,887	2,849
(48) Miscellaneous[c]	75[d]	(15)	38	0

---

a. Volumes are calculated at a pressure base 14.73 psi, absolute, and at a standard temperature of 60°F.
b. Includes offshore Alabama, Pacific (California), Gulf of Mexico (Louisiana), and Gulf of Mexico (Texas).
c. Includes Arizona, Illinois, Indiana, Maryland, Missouri, Nebraska, Oregon, South Dakota, and Tennessee.
d. Indicates that the estimate is associated with a sampling error (95 percent confidence interval) that exceeds 20 percent of the estimated value.

Note: "Old" means discovered in a prior year. "New" means discovered during the report year.

Source: U.S. Department of Energy, Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, 1992 Annual Report.

TABLE 2-3 (Continued)
CHANGES IN ESTIMATED PROVED RESERVES OF NATURAL GAS, IN THE UNITED STATES BY STATE, DURING 1992

(Billions of Cubic Feet)

Changes in Reserves During 1992					
Extensions	New Field Discoveries	New Reservoir Discoveries In Old Fields	Production	Proved Reserves 12/31/92	
4,675	**649**	**1,724**	**17,423**	**165,015**	**(1)**
35	95	1	256	5,802	(2)
54	0	0	414	9,638	(3)
88	1	6	204	1,750	(4)
27	22	13	285	2,778	(5)
0	0	0	20	203	(6)
0	0	0	10	97	(7)
27	22	13	245	2,415	(8)
0	0	0	10	63	(9)
413	5	62	320	6,198	(10)
0	0	0	7	47	(11)
35	1	24	590	9,681	(12)
35	0	1	61[d]	1,084	(13)
206	75	104	1,494	9,780	(14)
50	0	3	334	2,311	(15)
155	75	101	1,043	6,693	(16)
1	0	0	117	776	(17)
29	7	3	145	1,225	(18)
9	5	9	109[d]	869	(19)
16	0	5	52	859	(20)
412	3	15	1,143	18,998	(21)
31	3	3	437	3,130	(22)
381	0	12	706	15,868	(23)
5	0	0	22	329	(24)
17	0	2	43	496	(25)
3	1	10	117	1,161	(26)
382	0	110	1,895	13,926	(27)
24	0	5	139	1,528	(28)
1,729	127	197	4,545	35,093	(29)
13	0	1	141	933	(30)
60	10	33	246	1,389	(31)
233	13	33	502	2,684	(32)
464	79	98	1,124	6,739	(33)
51	0	3	171	1,747	(34)
466	7	22	532	5,317	(35)
0	0	0	68	455	(36)
57	6	3	285	3,239	(37)
165	5	0	693	5,924	(38)
14	0	0	101	1,239	(39)
49	0	0	99	670	(40)
137	7	4	509	4,409	(41)
20	0	0	74	348	(42)
37	0	4	111	1,830	(43)
136	0	0	25	904	(44)
32	25	6	170	2,356	(45)
297	6	169	714	10,826	(46)
654	276	978	4,556	27,767	(47)
0	0	0	6	92	(48)

TABLE 2-5
CHANGES IN ESTIMATED PROVED RESERVES OF NATURAL GAS LIQUIDS, IN THE UNITED STATES BY STATE, DURING 1992

(Millions of Barrels)[a]

		Changes In Reserves During 1992		
State and Subdivision	Published Proved Reserves 12/31/91	Net of Corrections and Adjustments	Revision Increases	Revision Decreases
(1) Total United States	**7,464**	**225**	**806**	**545**
(2) Alabama	145	13	34	7
(3) Alaska	360	0	10	3
(4) Arkansas	5	(1)	0	0
(5) California	92	14	6	5
(6) Coastal Region Onshore	12	(1)	1	1
(7) Los Angeles Basin Onshore	4	1	1	0
(8) San Joaquin Basin Onshore	75	14	4	4
(9) State Offshore	1	0	0	0
(10) Colorado	197	4	45	14
(11) Florida	7	0	2	0
(12) Kansas	428	10	48	18
(13) Kentucky	24	7	2	0
(14) Louisiana	526	22	70	71
(15) North	59	2	13	7
(16) South Onshore	417	7	46	53
(17) State Offshore	50	13	11	11
(18) Michigan	72	9	8	14
(19) Mississippi	10	0	2	3
(20) Montana	14	(1)	0	0
(21) New Mexico	908	170	70	34
(22) East	205	28	39	21
(23) West	703	142	31	13
(24) North Dakota	56	11	8	7
(25) Oklahoma	628	22	99	60
(26) Texas	2,493	55	244	208
(27) District 1	28	5	3	4
(28) District 2 Onshore	75	7	14	8
(29) District 3 Onshore	208	21	32	31
(30) District 4 Onshore	273	25	38	43
(31) District 5	71	7	3	5
(32) District 6	243	11	30	30
(33) District 7B	82	(4)	1	1
(34) District 7C	241	57	28	19
(35) District 8	477	(7)	43	29
(36) District 8A	333	(70)	19	7
(37) District 9	101	(3)	6	6
(38) District 10	356	6	27	24
(39) State Offshore	5	0	0	1
(40) Utah and Wyoming	748	(90)	55	28
(41) West Virginia	103	(5)	7	3
(42) Federal Offshore[b]	640	(16)	96	69
(43) Miscellaneous[c]	8	1	0	1

a. Barrel = 42 U.S. gallons.

b. Includes Pacific (California), Gulf of Mexico (Louisiana), and Gulf of Mexico (Texas).

c. Includes Arizona, Illinois, Indiana, Maryland, Missouri, Nebraska, New York, Ohio, Oregon, Pennsylvania, South Dakota, Tennessee, and Virginia.

Source: U.S. Department of Energy, Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves,* 1992 Annual Report.

TABLE 2-5 (Continued)
CHANGES IN ESTIMATED PROVED RESERVES OF NATURAL GAS LIQUIDS, IN THE UNITED STATES BY STATE, DURING 1992

(Millions of Barrels)[a]

Changes in Reserves During 1992					
Extensions	New Field Discoveries	New Reservoir Discoveries in Old Fields	Production	Proved Reserves 12/31/92	
190	**20**	**64**	**773**	**7,451**	**(1)**
0	0	0	14	171	(2)
7	0	0	27	347	(3)
0	0	0	0	4	(4)
1	1	0	10	99	(5)
0	0	0	1	10	(6)
0	0	0	1	5	(7)
1	1	0	8	83	(8)
0	0	0	0	1	(9)
7	0	1	14	226	(10)
0	0	0	1	8	(11)
2	0	1	27	444	(12)
1	0	0	2	32	(13)
9	8	8	77	495	(14)
2	0	0	9	60	(15)
7	8	8	60	380	(16)
0	0	0	8	55	(17)
1	0	0	8	68	(18)
1	0	0	1	9	(19)
0	0	0	1	12	(20)
9	0	0	57	1,066	(21)
2	0	0	30	223	(22)
7	0	0	27	843	(23)
2	0	0	6	64	(24)
19	0	6	85	629	(25)
100	5	10	297	2,402	(26)
0	0	0	5	27	(27)
4	0	3	15	80	(28)
18	1	2	40	211	(29)
18	3	4	46	272	(30)
2	0	0	7	71	(31)
21	0	1	25	251	(32)
0	0	0	10	68	(33)
5	1	0	24	289	(34)
12	0	0	52	444	(35)
3	0	0	21	257	(36)
7	0	0	13	92	(37)
10	0	0	39	336	(38)
0	0	0	0	4	(39)
14	0	8	47	660	(40)
1	1	0	7	97	(41)
16	5	30	92	610	(42)
0	0	0	0	8	(43)

TABLE 2-6
TOTAL ESTIMATED REMAINING IDENTIFIED RESERVES OF COAL AND LIGNITE BY STATE, AS OF JANUARY 1, 1992

(Billions of Short Tons)

State	Total Coal and Lignite	Coal			Lignite
		Anthracite and Semianthracite	Subbituminous	Bituminous	
United States	**475.6**	**7.5**	**180.6**	**242.7**	**44.8**
Alabama	4.8	—	—	3.7	1.1
Alaska	6.1	—	5.4	0.7	a
Arizona	0.2	—	—	0.2	—
Arkansas	0.4	0.1	—	0.3	a
Colorado	17.0	a	3.9	8.9	4.2
Georgia	a	—	—	a	—
Idaho	a	—	—	a	—
Illinois	78.1	—	—	78.1	—
Indiana	10.1	—	—	10.1	—
Iowa	2.2	—	—	2.2	—
Kansas	1.0	—	—	1.0	—
Kentucky	29.1	—	—	29.1	—
Louisiana	0.5	—	—	—	0.5
Maryland	0.8	—	—	0.8	—
Michigan	0.1	—	—	0.1	—
Missouri	6.0	—	—	6.0	—
Montana	119.9	—	102.8	1.4	15.8
New Mexico	4.4	a	2.5	1.9	—
North Carolina	a	—	—	a	—
North Dakota	9.6	—	—	—	9.6
Ohio	23.9	—	—	23.9	—
Oklahoma	1.6	—	—	1.6	—
Oregon	a	—	a	—	—
Pennsylvania	29.2	7.2	—	22.0	—
South Dakota	0.4	—	—	—	0.4
Tennessee	0.8	—	—	0.8	—
Texas	13.3	—	—	—	13.3
Utah	6.1	—	a	6.1	—
Virginia	2.5	0.1	—	2.4	—
Washington	1.4	a	1.1	0.3	a
West Virginia	36.8	—	—	36.8	—
Wyoming	69.3	—	64.9	4.4	—

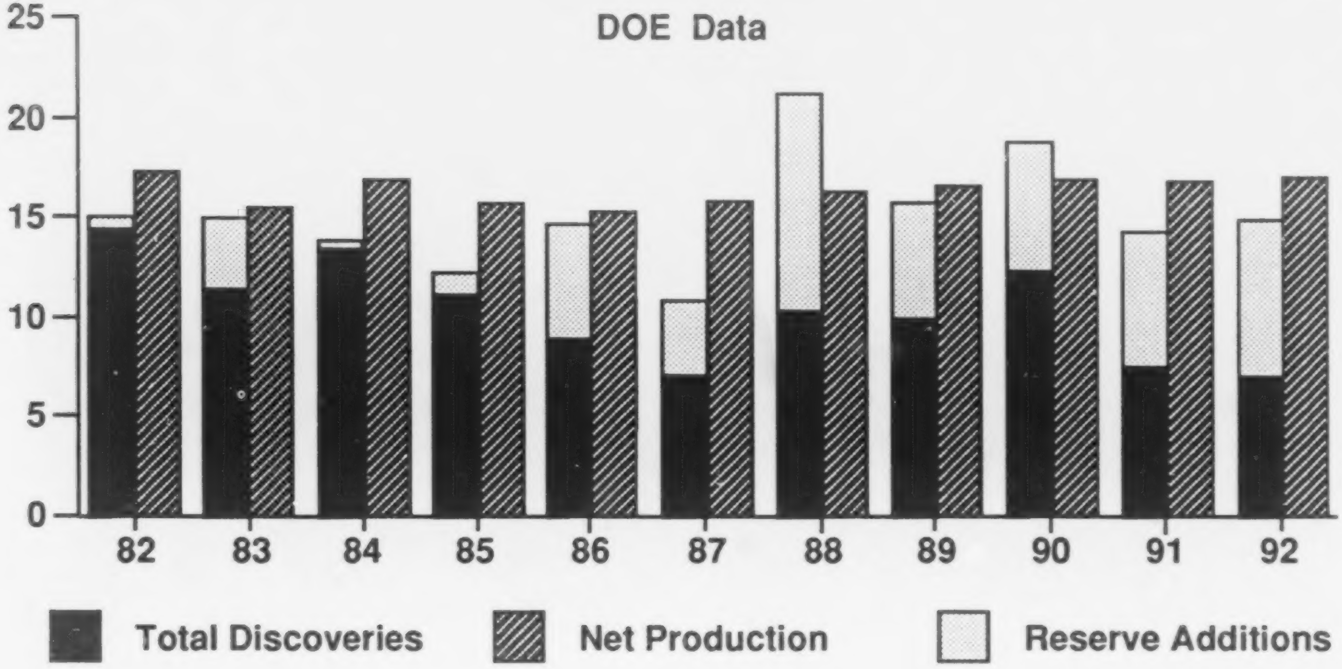
a. Less than 50 million short tons.

Source: U.S. Department of Energy, Energy Information Administration, *Coal Production 1991*.

CHART 2-2

NET PRODUCTION AND TOTAL DISCOVERIES OF GAS RESERVES

(TRILLIONS OF CUBIC FEET)



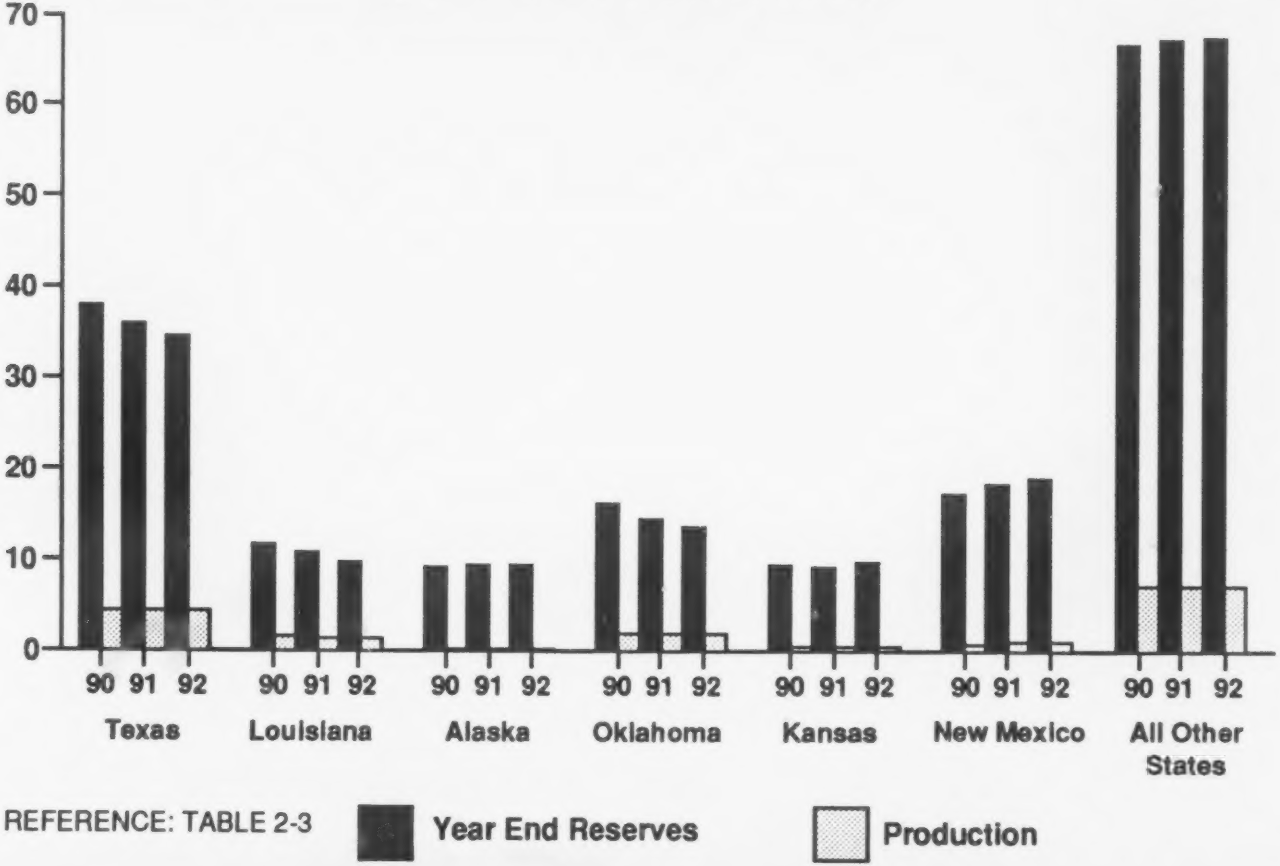
REFERENCE: TABLES 2-1, 2-2

NOTE: DATA REPRESENT LOWER-48 STATES ONLY

CHART 2-3

NATURAL GAS STATE RESERVES FOR 1990, 1991 AND 1992

(TRILLIONS OF CUBIC FEET)



REFERENCE: TABLE 2-3

TABLE 2-4

SUMMARY OF ANNUAL ESTIMATES OF PROVED RESERVES OF NATURAL GAS LIQUIDS IN THE UNITED STATES, 1979–1992

(Millions of Barrels)[a]

Year	Net of Corrections and Adjustments (1)	Revision Increases (2)	Revision Decreases (3)	Extensions to Old Reservoirs (4)	New Reservoir Discoveries in Old Fields (5)	New Field Discoveries (6)	Total Discoveries[b] (7)	Production (8)	Proved Reserves[c] 12/31 (9)	Net Change From Prior Year (10)
1979	64[d]	677	726	364	97	94	555	727	6,615	(157)
1980	153	743	639	418	79	90	587	731	6,728	113
1981	231	729	643	542	91	131	764	741	7,068	340
1982	299	811	832	375	109	112	596	721	7,221	153
1983	849	847	781	321	99	70	490	725	7,901	680
1984	(123)	866	724	348	96	55	499	776	7,643	(258)
1985	426	906	744	337	85	44	466	753	7,944	301
1986	367	1,030	807	263	72	34	369	738	8,165	221
1987	231	847	656	213	55	39	307	747	8,147	(18)
1988	11	1,168	715	268	72	41	381	754	8,238	91
1989	(277)	1,143	1,020	259	74	83	416	731	7,769	(469)
1990	(83)	827	606	303	73	39	415	732	7,586	(183)
1991	236	825	696	189	55	25	269	754	7,464	(120)
1992	225	806	545	190	64	20	274	773	7,451	(13)

a. Barrel = 42 U.S. gallons.

b. Col. 4 + Col. 5 + Col. 6 = Col. 7.

c. Proved Reserves = Prior year Col. 9 + Col. 1 + Col. 2 − Col. 3 + Col. 7 − Col. 8.

d. Consists only of reported corrections.

Note: "Old" means discovered in a prior year. "New" means discovered during the report year.

Source: U.S. Department of Energy, Energy Information Administration, *U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves*, 1992 Annual Report.

TABLE 2-8
CHANGES IN ESTIMATED PROVED RESERVES OF CRUDE OIL, IN THE UNITED STATES BY STATE, DURING 1992

(Millions of Barrels)[a]

		Changes in Reserves During 1992		
State and Subdivision	Published Proved Reserves 12/31/91	Net of Corrections and Adjustments	Revision Increases	Revision Decreases
(1) Total United States	**24,682**	**290**	**1,804**	**1,069**
(2) Alabama	43	(5)	15	4
(3) Alaska	6,083	(7)	461	3
(4) Arkansas	70[b]	(3)	5	6
(5) California	4,217	(54)	163	154
(6) Coastal Region Onshore	554	(5)	11	15
(7) Los Angeles Basin Onshore	272	(9)	16	18
(8) San Jonquin Basin Onshore	3,126	(42)	129	106
(9) State Offshore	265	2	7	15
(10) Colorado	329	(15)	15	11
(11) Florida	37	2	5	3
(12) Illinois	128	22	6	2
(13) Indiana	16[b]	2	1	0
(14) Kansas	300	44	21	9
(15) Kentucky	31[b]	4	3	0
(16) Louisiana	679	24	112	57
(17) North	127	6	26	14
(18) South Onshore	408	27	68	37
(19) State Offshore	144	(9)	18	6
(20) Michigan	119	(1)	6	9
(21) Mississippi	194	8	23	38
(22) Montana	201	8	13	14
(23) Nebraska	26	5	3	3
(24) New Mexico	721	14	144	71
(25) East	694	5	142	60
(26) West	27	9	2	11
(27) North Dakota	232	22	22	21
(28) Ohio	66	0	1	1
(29) Oklahoma	700	34	108	71
(30) Pennsylvania	15	2	0	0
(31) Texas	6,797	144	398	417
(32) District 1	227	1	29	52
(33) District 2 Onshore	90	5	7	3
(34) District 3 Onshore	300	(7)	52	25
(35) District 4 Onshore	52	0	12	6
(36) District 5	46	11	7	3
(37) District 6	504	(3)	14	23
(38) District 7B	184	15	5	20
(39) District 7C	253	27	21	27
(40) District 8	2,114	20	124	96
(41) District 8A	2,763	35	108	145
(42) District 9	162	33	16	5
(43) District 10	95	7	8	11
(44) State Offshore	7	0	1	1
(45) Utah	233	(2)	6	5
(46) West Virginia	26	(1)	3	2
(47) Wyoming	757	(5)	59	42
(48) Federal Offshore[c]	2,620	52	210	115
(49) Miscellaneous[d]	42	(4)	1	11

a. Barrel = 42 U.S. gallons.

b. Indicates that the estimate is associated with a sampling error (95 percent confidence interval) which exceeds 20 percent of the estimated value.

c. Includes Pacific (California), Gulf of Mexico (Louisiana), and Gulf of Mexico (Texas).

d. Includes Arizona, Missouri, Nevada, New York, South Dakota, Tennessee, and Virginia.

Source: U.S. Department of Energy, Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves,* 1992Annual Report.

TABLE 2-8 (Continued)
CHANGES IN ESTIMATED PROVED RESERVES OF CRUDE OIL, IN THE UNITED STATES BY STATE, DURING 1992

(Millions of Barrels)[a]

Changes in Reserves During 1992					
Extensions	New Field Discoveries	New Reservoir Discoveries in Old Fields	Production	Proved Reserves 12/31/92	
391	**8**	**85**	**2,446**	**23,745**	**(1)**
0	1	0	9	41	(2)
112	0	1	625	6,022	(3)
1	0	0	9	58	(4)
3	0	20	302	3,893	(5)
0	0	0	23	522	(6)
0	0	0	25	236	(7)
3	0	20	232	2,898	(8)
0	0	0	22	237	(9)
10	0	5	29	304	(10)
0	0	0	5	36	(11)
0	0	0	16	138	(12)
0	0	0	2	17	(13)
4	0	0	50	310	(14)
0	0	0	4	34	(15)
14	0	6	110	668	(16)
1	0	0	21	125	(17)
13	0	6	68	417	(18)
0	0	0	21	126	(19)
0	0	1	14	102	(20)
1	0	0	23	165	(21)
2	0	1	18	193	(22)
0	0	0	5	26	(23)
12	0	1	64	757	(24)
10	0	1	61	731	(25)
2	0	0	3	26	(26)
12	0	1	31	237	(27)
0	0	0	8	58	(28)
10	0	2	85	698	(29)
1	0	0	2	16	(30)
118	5	13	617	6,441	(31)
7	0	3	30	185	(32)
1	0	1	15	86	(33)
46	0	8	70	304	(34)
1	0	0	9	50	(35)
3	0	0	8	56	(36)
12	0	0	62	442	(37)
0	0	1	22	163	(38)
8	2	0	29	255	(39)
29	1	0	161	2,031	(40)
9	2	0	173	2,599	(41)
1	0	0	25	176	(42)
1	0	0	11	89	(43)
0	0	0	2	5	(44)
3	1	0	19	217	(45)
3	0	0	2	27	(46)
3	0	1	84	689	(47)
77	1	33	309	2,569	(48)
5	0	0	4	29	(49)

TABLE 2-10
ESTIMATED ESTABLISHED REMAINING MARKETABLE RESERVES OF NATURAL GAS IN CANADA, BY PROVINCE, 1992[a]

(Millions of Cubic Feet)

Province	Remaining Reserves December 31, 1991	Change During Year	Remaining Reserves At December 31, 1992		
			Total[b]	Net Non-associated	Associated/ Disolved
Canada	**96,218,853**	**(1,395,436)**	**94,823,417**	**83,229,709**	**11,593,708**
Total West Canada	**95,622,913**	**(1,401,186)**	**94,221,727**	**82,628,161**	**11,593,567**
Alberta	59,578,107	(2,011,714)	57,566,394	48,224,231	9,342,163
Arctic Islands	14,423,587	—	14,423,587	13,382,556	1,041,031
Br. Columbia	8,135,695	643,146	8,778,842	8,533,083	245,759
Mackenzie/Beaufort	10,603,042	—	10,603,042	9,740,544	862,498
Mainland Territories	355,967	(5,182)	350,785	330,021	20,764
Saskatchewan	2,526,515	(27,437)	2,499,078	2,417,726	81,352
Total East Canada	**595,939**	**5,751**	**601,690**	**601,548**	**142**
Ontario	593,384	5,786	599,170	599,170	—
Other E. Canada	2,555	(35)	2,520	2,378	142

a. Volumes are calculated at a pressure base of 14.65 psia and at a standard temperature of 60°F.
b. Underground storage not included.
( ): Denotes negative volume.
Source: Same as Table 2–9.

TABLE 2-11
CHANGES IN ESTIMATED ESTABLISHED REMAINING MARKETABLE RESERVES OF NATURAL GAS IN CANADA, BY PROVINCE, DURING 1992[a]

(Millions of Cubic Feet)

Province	Remaining Reserves December 31, 1991	Gross Additions	Net Production[b]	Remaining Reserves December 31, 1992
Canada	**96,218,853**	**2,828,318**	**4,223,754**	**94,823,417**
Total West Canada	**95,622,913**	**2,807,377**	**4,208,563**	**94,221,727**
Alberta	59,578,107	1,460,425	3,472,139	57,566,394
Arctic Islands	14,423,587	—	—	14,423,587
Br. Columbia	8,135,695	1,132,889	489,742	8,778,842
Mackenzie/Beaufort	10,603,042	—	—	10,603,042
Mainland Territories	355,967	17,747	22,929	350,785
Saskatchewan	2,526,515	196,316	223,752	2,499,078
Total East Canada	**595,939**	**20,941**	**15;191**	**601,690**
Ontario	593,384	20,941	15,156	599,170
Other E. Canada	2,555	—	35	2,520

a. Volumes are calculated at a pressure base of 14.65 psia and at a standard temperature of 60°F.
b. Includes net change in underground storage.
( ): Denotes negative volume.
Source: Same as Table 2-9.

SECTION 3
NATURAL GAS SUPPLY

	1992	% Change 92/91
Maximum Day Sendout (Trillions of Btu)	86.4	+ 1.6
Production (wet) (Trillions of Btu)	20,631	− 0.5
Net Imports (Millions of cubic feet)	1,921,222	+16.9
Producing Gas Wells	280,899	+ 3.1
New Gas Well Completions	4,763	−37.8

*Percentage change based on preliminary data for both years.
**As estimated by the Energy Information Administration at year end.

Beginning in January 1985, the method of reporting oil and gas well completions changed significantly. Because a substantial time lag exists between the date a well is actually completed and the date a report on the well is received by the American Petroleum Institute (API), publishing data on an "as reported" basis does not accurately reflect the timing of completion activity. A new methodology involves reporting completions on the basis of when the completions occurred. However, in some cases, it can take over two years before a well completion is reported to the API and reflected in their published data.

As a result, well completion data may not necessarily be comparable from year to year due to the constant updating to the well completion data provided by the API.

For those tables where both total U.S. and individual state data are published, the individual state data are "as reported" and for recent periods may be subject to significant revision. The total U.S. figures reflect *estimates* by API of the number of completion reports which will ultimately be received.

Please refer to American Gas Association, *Gas Energy Review*, April 1986, Volume 14, Number 4 for further details.

TABLE 2-7
SUMMARY OF ANNUAL ESTIMATES OF PROVED RESERVES OF CRUDE OIL IN THE UNITED STATES, 1977–1992

(Millions of Barrels)[a]

Year	Net of Corrections and Adjustments (1)	Revision Increases (2)	Revision Decreases (3)	Extensions to Old Reservoirs (4)	New Reservoir Discoveries in Old Fields (5)	New Field Discoveries (6)	Total Discoveries[b] (7)	Production (8)	Proved Reserves[c] 12/31 (9)	Net Change From Prior Year (10)
1977	(40)[d]	1,503	1,117	496	130	168	794	2,862	31,780	(1,722)
1978	366	2,799	1,409	444	116	267	827	3,008	31,355	(425)
1979	337	2,438	2,001	424	104	108	636	2,955	29,810	(1,545)
1980	219	2,883	994	572	147	143	862	2,975	29,805	(5)
1981	138	2,151	880	750	157	254	1,161	2,949	29,426	(379)
1982	(83)	2,245	1,811	634	193	204	1,031	2,950	27,858	(1,568)
1983	462	2,810	1,299	629	190	105	924	3,020	27,735	(123)
1984	159	3,672	1,227	744	158	242	1,144	3,037	28,446	711
1985	429	3,037	1,439	742	169	84	995	3,052	28,416	(30)
1986	57	2,724	1,869	405	81	48	534	2,973	26,889	(1,527)
1987	233	3,687	1,371	484	111	96	691	2,873	27,256	367
1988	364	2,684	1,221	355	127	71	553	2,811	26,825	(431)
1989	213	2,698	1,365	514	90	112	716	2,586	26,501	(324)
1990	86	2,483	1,000	456	135	98	689	2,505	26,254	(247)
1991	163	2,097	1,874	365	92	97	554	2,512	24,682	(1,572)
1992	290	1,804	1,069	391	85	8	484	2,446	23,745	(937)

a. Barrel = 42 U.S. gallons.
b. Col. 4 + Col. 5 + Col. 6 = Col. 7.
c. Proved Reserves = Prior year Col. 9 + Col. 1 + Col. 2 − Col. 3 + Col. 7 − Col. 8.
d. Consists only of reported corrections.
Note: "Old" means discovered in a prior year. "New" means discovered during the report year.
Source: U.S. Department of Energy, Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, 1992 Annual Report.

TABLE 2-9
SUMMARY OF ANNUAL ESTIMATES OF RESERVES OF NATURAL GAS IN CANADA, 1972–1992[a]

(Millions of Cubic Feet)

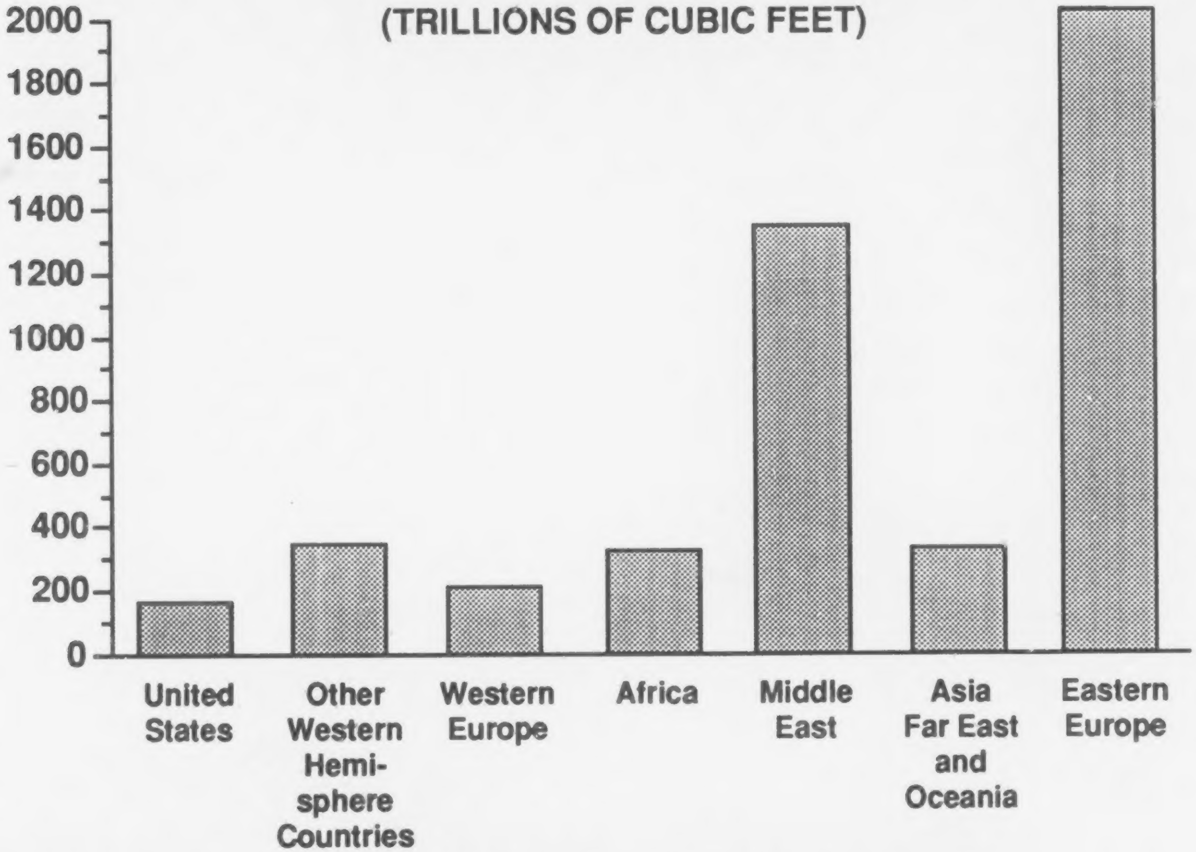
		Changes Due To								
	Reserves Remaining at Beginning of Year	Revisions	Revisions and Extensions	Extensions	Discoveries	Net Change in Underground Storage	Net Production	Reserves Remaining at End of Year	Change During Year	Probable Remaining at End of Year[b]
MARKETABLE GAS[c]										
1972	55,461,850	(2,004,125)	—	1,243,897	487,538	(5,580)	2,247,798	52,935,782	(2,526,068)	60,546,769
1973	52,935,782	(167,054)	—	1,257,243	686,714	70,097	2,325,350	52,457,432	(478,350)	60,801,088
1974	52,457,432	2,953,557	—	3,487,099	193,056	10,428	2,393,486	56,708,086	4,250,654	64,459,133
1975	56,708,086	(177,606)	—	2,412,582	362,895	29,869	2,361,110	56,974,716	266,630	71,466,773
1976	56,974,716	(367,880)	—	3,587,990	639,345	(11,053)	2,541,176	58,281,942	1,307,226	76,359,832
1977	58,281,942	1,432,871	—	1,852,325	351,007	46,730	2,492,849	59,472,026	1,190,084	78,031,771
ESTABLISHED RESERVES										
1977	76,835,973	d	—	d	d	46,709	2,492,850	79,180,390	2,344,416	—
1978	79,180,390	2,026,962	—	2,534,342	1,018,734	3,443	2,340,406	82,423,467	3,243,077	—
1979	82,423,467	3,012,475	—	2,062,527	3,347,747	10,613	2,263,030	88,593,799	6,170,332	—
1980	88,594,374	62,043	—	1,408,320	900,050	(33,222)	2,486,016	88,445,549	(148,825)	—
1981	88,461,174	2,234,086	—	2,062,408	624,303	9,372	2,405,800	90,985,543	2,524,369	—
1982	90,985,541	1,750,541	—	1,425,609	214,029	73,450	2,466,895	91,982,275	996,734	—
1983	91,966,031	1,899,412	—	982,360	223,149	(114,502)	2,225,705	92,730,743	764,712	—
1984	92,730,742	d	—	d	d	d	2,804,502[e]	99,687,016	6,956,274	—
1985	99,145,610	d	—	d	d	d	2,909,576	98,275,160	(870,450)	—
1986	98,811,812	d	—	d	d	d	2,731,846	97,448,391	(1,363,421)	—
1987	97,448,391	d	—	d	d	d	2,834,813	95,576,913	(1,871,478)	—
1988	95,576,913	d	—	d	d	d	3,588,700	94,787,604	(789,310)	—
1989	94,787,604	d	—	d	d	d	3,621,887	96,984,808	2,197,204	—
1990	96,984,808	d	—	d	d	d	3,787,039	96,734,257	(250,550)	—
1991	96,734,257	d	—	d	d	d	3,931,002	96,218,853	(515,404)	—
1992	96,218,853	d	—	d	d	d	4,223,754	94,823,417	(1,395,436)	—

a. Volumes are calculated at a pressure base of 14.65 psia and at a standard temperature of 60°F.
b. Includes proved reserves.
c. For definition refer to Glossary.
d. Not available.
e. Includes net change in underground storage.
( ): Denotes negative volume.
Source: Canadian Association of Petroleum Producers.

CHART 2-4

WORLD ESTIMATED NATURAL GAS RESERVES, 1992

(TRILLIONS OF CUBIC FEET)



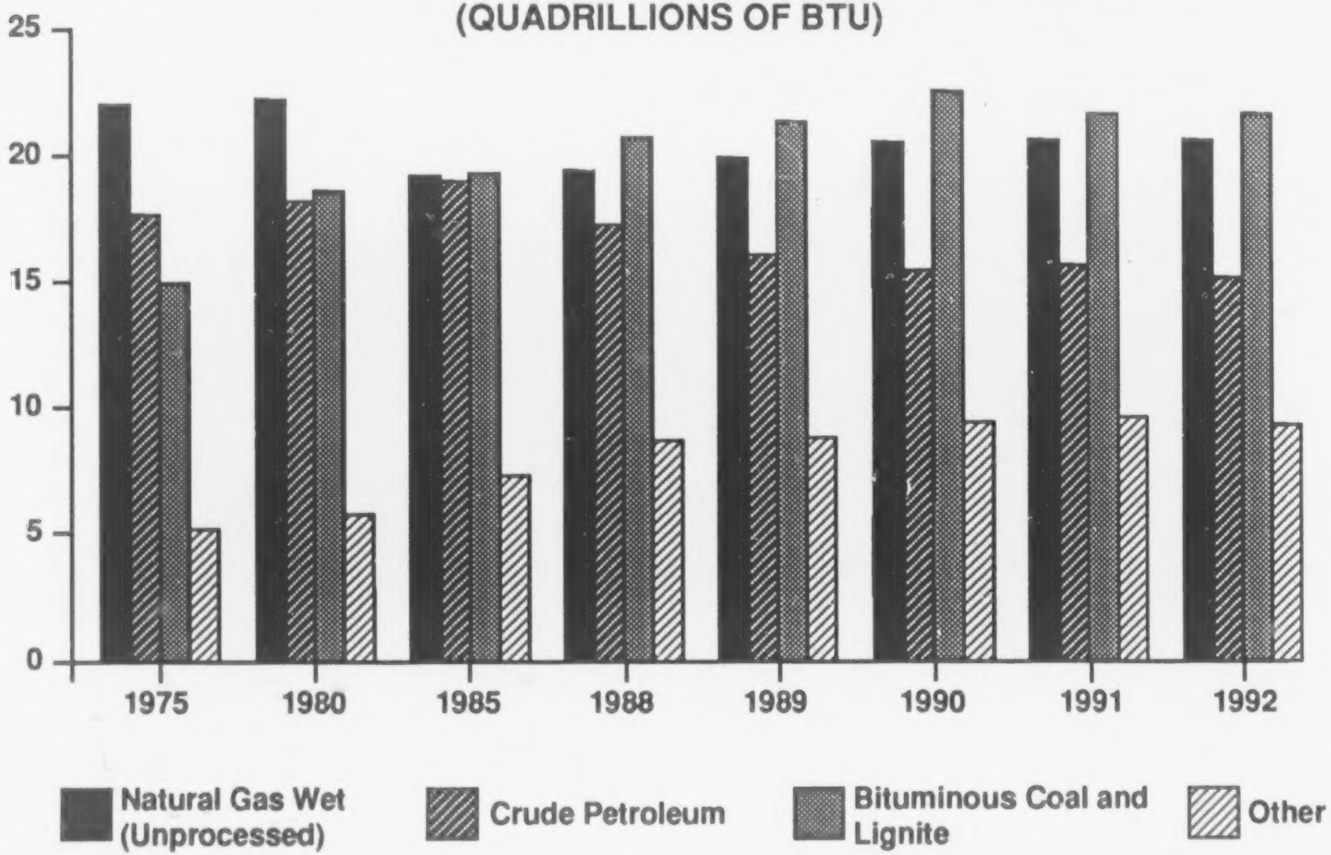
WORLD TOTAL 4,811 TRILLION CUBIC FEET

SOURCE: WORLD OIL, AUGUST 1993

CHART 3-1

UNITED STATES ENERGY PRODUCTION

(QUADRILLIONS OF BTU)



REFERENCE: TABLE 3-1

SUPPLY

TABLE 3-1
ANNUAL PRODUCTION OF FOSSIL ENERGY RESOURCES, AND ELECTRICITY FROM HYDROPOWER AND NUCLEAR POWER, IN THE UNITED STATES, 1975-1992[a]

(Trillions of Btu)

Year	Natural Gas Wet (unprocessed)	Crude Petroleum	Bituminous Coal and Lignite	Anthracite Coal	Hydro-power[b]	Nuclear[c]	Other[d]	Grand Total Energy
1975	22,014	17,729	14,990	e	3,155	1,900	72	59,860
1976	21,807	17,262	15,654	e	2,976	2,111	81	59,891
1977	21,892	17,454	15,755	e	2,333	2,702	82	60,218
1978	21,730	18,434	14,910	e	2,937	3,024	68	61,103
1979	22,362	18,104	17,539	e	2,931	2,776	89	63,801
1980	22,162	18,249	18,597	e	2,900	2,739	114	64,761
1981	22,006	18,146	18,376	e	2,758	3,008	127	64,421
1982	20,510	18,309	18,639	e	3,266	3,131	108	63,963
1983	18,777	18,392	17,246	e	3,527	3,203	133	61,278
1984	20,281	18,848	19,719	e	3,348	3,553	174	65,923
1985	19,222	18,992	19,325	e	2,939	4,149	213	64,840
1986	18,690	18,376	19,510	e	3,017	4,471	231	64,295
1987	19,351	17,675	20,142	e	2,593	4,906	244	64,911
1988	19,859	17,279	20,737	e	2,314	5,661	235	66,085
1989	20,006	16,117	21,345	e	2,771	5,677	217	66,133
1990	20,537	15,571	22,456	e	2,926	6,161	202	67,873
1991[R]	20,590	15,701	21,594	e	2,885	6,579	191	67,539
1992	20,631	15,185	21,557	e	2,512	6,646	192	66,724

a. The 1992 unit heat values employed are: Anthracite, 11,286 Btu per pound; bituminous coal and lignite, 10,834 Btu per pound; petroleum approx. 5,800,000 Btu per barrel; natural gas dry 1,030 Btu per cubic foot; natural gas liquids obtained by using 90,548 Btu per gallon.

b. Hydropower output is converted to theoretical energy inputs calculated from national average heat rates for fossil-fueled steam-electric plants.

c. Nuclear power energy input conversion is calculated annually by the Energy Information Administration.

d. Includes geothermal power and electricity produced from wood and waste.

e. Included in "Bituminous Coal and Lignite."

R–Revised. P–Preliminary.

Source: Prior to 1977 U.S. Bureau of Mines, for 1977 and beyond, data taken from U.S. Department of Energy, Energy Information Administration, *Monthly Energy Review*.

TABLE 3-2
ANNUAL PRODUCTION OF FOSSIL ENERGY RESOURCES, AND ELECTRICITY FROM HYDROPOWER AND NUCLEAR POWER, IN THE UNITED STATES, 1975-1992

(Percentage)

Year	Natural Gas Wet (unprocessed)	Crude Petroleum	Bituminous Coal and Lignite	Anthracite Coal	Hydro-power	Nuclear	Other[a]	Grand Total Energy
1975	36.8	29.6	25.0	b	5.3	3.2	.1	100.0
1976	36.4	28.8	26.2	b	5.0	3.5	.1	100.0
1977	36.4	29.0	26.1	b	3.9	4.5	.1	100.0
1978	35.6	30.2	24.4	b	4.8	4.9	.1	100.0
1979	35.0	28.4	27.5	b	4.6	4.4	.1	100.0
1980	34.2	28.2	28.7	b	4.5	4.2	.2	100.0
1981	34.1	28.2	28.5	b	4.3	4.7	.2	100.0
1982	32.0	28.6	29.2	b	5.1	4.9	.2	100.0
1983	30.6	30.1	28.2	b	5.7	5.2	.2	100.0
1984	30.7	28.6	30.0	b	5.0	5.4	.3	100.0
1985	29.6	29.3	29.8	b	4.5	6.4	.3	100.0
1986	29.1	28.6	30.3	b	4.7	7.0	.3	100.0
1987	29.8	27.2	31.0	b	4.0	7.6	.4	100.0
1988	30.0	26.1	31.4	b	3.5	8.6	.4	100.0
1989	30.3	24.4	32.3	b	4.2	8.6	.3	100.0
1990	30.3	22.9	33.1	b	4.3	9.1	.3	100.0
1991[R]	30.5	23.3	32.0	b	4.3	9.7	.3	100.0
1991	30.9	22.7	32.3	b	3.8	10.0	.3	100.0

a. Includes geothermal power and electricity produced from wood and waste.

b. Included in "Bituminous Coal and Lignite."

R–Revised. P–Preliminary.

Source: Same as Table 3-1.

TABLE 3-4
GAS UTILITY INDUSTRY, GAS SUPPLY AND DISPOSITION, 1975–1992[a]

(Trillions of Btu)

	Amount						
	1975	1980	1985	1989	1990	1991[R]	1992
Supply—Produced and Purchased—Total	**16,811.5**	**17,276.4**	**14,164.1**	**11,372.8**	**11,429.8**	**10,577.2**	**10,784.9**
Natural Gas	16,490.1	16,935.3	14,016.1	11,297.5	11,367.9	10,515.2	10,720.1
Manufactured Gas	19.3	8.8	3.8	5.8	5.5	5.1	6.0
Liquefied Petroleum Gas	24.8	17.9	6.5	6.8	6.0	3.9	3.5
Substitute Natural Gas	261.3	198.4	76.4	14.9	13.5	11.7	13.3
Liquefied Natural Gas	8.4	79.6	24.7	12.6	8.9	9.4	9.9
Unclassified	7.6	36.4	36.6	35.2	28.0	31.9	32.0
Disposition—Total	**16,811.5**	**17,276.4**	**14,164.1**	**11,372.8**	**11,429.8**	**10,577.2**	**10,784.9**
Used in Production of Other Gases[b]	124.2	95.0	66.6	71.0	86.6	139.4	109.6
Company Use as a Fuel[c]	1,089.3	1,278.7	1,107.3	868.5	830.9	738.4	878.4
Sales to Ultimate Consumers	14,862.9	15,413.2	12,615.2	10,551.1	9,841.9	9,601.4	9,906.5
Other Deliveries (Net)	83.9	85.8	132.6	63.2	(101.9)	(66.5)	4.6
Placed in Storage (Net)	348.8	16.9	(326.2)	(500.8)	482.6	(104.8)	(131.2)
Unaccounted For[d]	302.4	386.8	568.6	319.8	289.8	269.3	17.2

a. Total supply figures involve some double counting. For production of supplementals see Table 3-16.
b. Includes Natural Gas used for enriching, reforming and mixing.
c. Includes interdepartmental transfers.
d. Represents difference between supply and disposition, and should not be interpreted as a reliable measure of transmission efficiency.
R–Revised.

TABLE 3-5
GAS UTILITY INDUSTRY, MAXIMUM AND MINIMUM DAY SENDOUT[a] BY SOURCE OF SUPPLY, 1985–1992[b]

(Trillions of Btu)

	1985	1986	1987	1988	1989	1990	1991[R]	1992
Maximum Day Sendout—Total	**76.8**	**72.8**	**73.4**	**79.5**	**87.2**	**88.4**	**84.7**	**86.4**
Peak Shaving Facilities	2.8	1.4	0.9	1.9	2.2	2.3	1.5	1.3
Underground Storage Withdrawal	44.2	39.7	37.8	39.4	47.9	44.9	40.5	44.9
Regular Production and Purchases	29.8	31.7	34.7	38.2	37.1	41.2	42.7	40.1
Minimum Day Sendout—Total	**12.0**	**14.3**	**14.5**	**15.9**	**17.4**	**22.7**	**20.9**	**18.3**

a. Represents summation of all companies maximum/minimum day sendout, and is non-coincident.
b. Excludes sendout of pipeline companies to avoid duplication. Underground storage withdrawals include amounts from fields operated by both distributors and pipelines.
R–Revised.

TABLE 3-6
GROSS PRODUCTION OF NATURAL GAS, BY STATE, 1975-1991[a]

(Millions of Cubic Feet)

Division and State	1975	1980	1985	1988	1989	1990[R]	1991
United States	**21,103,530**	**21,869,692**	**19,534,475**	**20,999,255**	**21,074,425**	**21,522,622**	**21,740,245**
New England	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Middle Atlantic	**92,400**	**113,089**	**185,568**	**194,556**	**217,243**	**203,007**	**175,278**
New Jersey	0	0	0	0	0	0	0
New York	7,628	15,650	35,334	27,467	25,469	25,398	22,778
Pennsylvania	84,772	97,439	150,234	167,089	191,774	177,609	152,500
East North Central	**191,497**	**305,003**	**321,455**	**320,249**	**324,449**	**333,510**	**349,762**
Illinois	1,440	1,574	1,324	1,338	1,477	677	466
Indiana	346	463	367	412	416	399	232
Michigan	103,901	164,110	137,519	151,809	162,826	177,815	201,413
Ohio	85,810	138,856	182,245	166,690	159,730	154,619	147,651
Wisconsin	0	0	0	0	0	0	0
West North Central	**877,137**	**791,315**	**604,140**	**665,901**	**666,634**	**644,262**	**636,230**
Iowa	0	0	0	0	0	0	0
Kansas	846,164	737,246	514,415	594,386	602,722	575,090	566,970
Minnesota	0	0	0	0	0	0	0
Missouri	30	0	4	4	4	7	15
Nebraska	3,963	2,550	1,944	910	878	793	784
North Dakota	26,941	50,321	84,631	66,318	58,326	63,590	62,657
South Dakota	39	1,198	3,146	4,283	4,704	4,782	5,804
South Atlantic	**205,683**	**210,852**	**171,567**	**202,060**	**203,934**	**200,362**	**219,438**
Delaware	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	44,383	46,421	11,604	8,407	8,773	7,566	5,898
Georgia	0	0	0	0	0	0	0
Maryland	93	68	39	29	34	22	29
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	6,723	7,812	15,041	18,682	17,935	14,774	14,906
West Virginia	154,484	156,551	144,883	174,942	177,192	178,000	198,605
East South Central	**192,544**	**385,362**	**413,130**	**487,963**	**454,473**	**464,534**	**485,406**
Alabama	38,921	111,836	143,420	175,054	180,300	186,542	223,875
Kentucky	60,511	57,180	73,126	73,629	72,417	75,333	78,904
Mississippi	92,500	215,105	191,898	237,180	199,856	200,592	180,771
Tennessee	612	1,241	4,686	2,100	1,900	2,067	1,856
West South Central	**17,073,397**	**16,810,823**	**13,913,317**	**14,524,555**	**14,460,154**	**14,664,417**	**14,322,454**
Arkansas	121,518	127,696	181,959	190,678	199,105	195,405	169,632
Louisiana	7,242,408	7,008,489	5,218,098	5,248,205	5,142,971	5,303,485	5,100,054
Oklahoma	1,720,698	2,018,577	1,936,341	2,167,050	2,237,037	2,258,471	2,153,850
Texas	7,988,773	7,656,061	6,576,919	6,918,622	6,881,041	6,907,056	6,898,918
Mountain	**1,849,992**	**1,952,333**	**1,981,297**	**2,165,880**	**2,313,532**	**2,510,391**	**2,710,207**
Arizona	255	357	209	179	1,455	2,147	1,280
Colorado	174,145	191,806	189,565	212,030	237,372	268,683	295,118
Idaho	0	0	0	0	0	0	0
Montana	44,547	53,802	54,151	53,014	52,583	51,537	53,002
Nevada	0	0	0	0	0	0	53
New Mexico	1,227,200	1,168,049	926,174	811,994	878,080	984,679	1,058,616
Utah	77,607	87,766	213,302	277,910	278,081	319,632	323,660
Wyoming	326,238	450,553	597,896	810,753	865,961	883,713	978,478
Pacific	**620,880**	**1,300,915**	**1,944,001**	**2,438,091**	**2,434,006**	**2,502,139**	**2,841,470**
Alaska	253,227	893,759	1,343,553	1,933,047	1,965,013	2,053,324	2,378,893
California	367,653	407,151	596,368	501,044	466,493	446,000	459,836
Hawaii	0	0	0	0	0	0	0
Oregon	0	5	4,080	4,000	2,500	2,815	2,741
Washington	0	0	0	0	0	0	0
Other States	**0**	**0**	**0**	**0**	**0**	**0**	**0**

a. Includes gas (mostly residue gas) blown to the air, but does not include direct waste on producing properties, except where data are available.

R–Revised.

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Annual*, 1991.

TABLE 3-7
NET WELLHEAD PRODUCTION OF NATURAL GAS, BY STATE, 1975-1991[a]

(Millions of Cubic Feet)

Division and State	1975	1980	1985	1988	1989	1990R	1991
United States	**20,242,574**	**20,504,238**	**17,619,278**	**18,520,873**	**18,599,246**	**19,033,582**	**18,968,432**
New England	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Middle Atlantic	**92,400**	**113,089**	**185,568**	**194,556**	**217,243**	**203,007**	**175,278**
New Jersey	0	0	0	0	0	0	0
New York	7,628	15,650	35,334	27,467	25,469	25,398	22,778
Pennsylvania	84,772	97,439	150,234	167,089	191,774	177,609	152,500
East North Central	**190,471**	**302,628**	**319,115**	**317,909**	**321,681**	**331,170**	**347,428**
Illinois	1,440	1,574	1,324	1,338	1,477	677	466
Indiana	346	463	367	412	416	399	232
Michigan	103,725	161,735	135,179	149,469	160,058	175,475	199,073
Ohio	84,960	138,856	182,245	166,690	159,730	154,619	147,651
Wisconsin	0	0	0	0	0	0	0
West North Central	**875,409**	**789,841**	**600,360**	**664,575**	**665,282**	**640,693**	**633,039**
Iowa	0	0	0	0	0	0	0
Kansas	844,471	735,772	513,387	593,423	601,705	574,160	565,984
Minnesota	0	0	0	0	0	0	0
Missouri	30	0	4	4	4	7	15
Nebraska	3,963	2,550	1,944	910	878	793	784
North Dakota	26,941	50,321	82,273	66,318	58,326	61,204	60,529
South Dakota	5	1,198	2,752	3,920	4,369	4,529	5,727
South Atlantic	**205,683**	**210,852**	**171,567**	**202,060**	**203,934**	**200,247**	**219,438**
Delaware	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	44,383	46,421	11,604	8,407	8,773	7,451	5,898
Georgia	0	0	0	0	0	0	0
Maryland	93	68	39	29	34	22	29
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	6,723	7,812	15,041	18,682	17,935	14,774	14,906
West Virginia	154,484	156,551	144,883	174,942	177,192	178,000	198,605
East South Central	**186,251**	**369,219**	**390,809**	**425,571**	**395,827**	**399,732**	**430,788**
Alabama	38,921	108,702	128,651	151,610	152,044	158,002	193,186
Kentucky	60,511	57,180	73,126	73,629	72,417	75,333	78,904
Mississippi	86,207	202,096	184,346	198,232	169,466	164,330	156,842
Tennessee	612	1,241	4,686	2,100	1,900	2,067	1,856
West South Central	**16,387,930**	**16,273,072**	**13,336,432**	**13,999,831**	**13,942,636**	**14,223,384**	**13,911,588**
Arkansas	117,555	112,202	155,923	167,684	175,268	175,240	164,910
Louisiana	7,116,104	6,962,775	5,038,715	5,203,102	5,100,023	5,262,649	5,054,762
Oklahoma	1,637,212	1,917,379	1,936,341	2,167,050	2,237,037	2,258,471	2,153,850
Texas	7,517,059	7,280,716	6,205,453	6,461,995	6,430,308	6,527,024	6,538,066
Mountain	**1,813,914**	**1,898,955**	**1,790,095**	**1,921,487**	**2,079,934**	**2,254,058**	**2,418,932**
Arizona	255	357	209	179	1,455	2,147	1,280
Colorado	174,145	191,610	188,817	209,789	230,669	257,697	288,851
Idaho	0	0	0	0	0	0	0
Montana	43,936	53,572	53,954	52,800	52,406	51,315	52,771
Nevada	0	0	0	0	0	0	53
New Mexico	1,219,072	1,154,992	911,181	796,810	860,976	968,554	1,041,522
Utah	57,160	87,766	86,145	103,138	121,250	147,213	146,442
Wyoming	319,346	410,658	549,789	758,771	813,178	827,132	888,013
Pacific	**490,516**	**546,582**	**825,332**	**794,884**	**772,709**	**781,291**	**831,947**
Alaska	170,671	235,408	327,642	387,656	403,515	413,635	448,605
California	319,845	311,169	493,610	403,228	366,694	364,841	380,601
Hawaii	0	0	0	0	0	0	0
Oregon	0	5	4,080	4,000	2,500	2,815	2,741
Washington	0	0	0	0	0	0	0

[a] As defined by A.G.A. "Net Wellhead Production" equals "Gross Production" less gas for repressuring (see Table 3-3) and therefore includes natural gas liquids.

R–Revised.

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Annual*, 1991.

TABLE 3-8
MARKETED PRODUCTION OF NATURAL GAS, BY STATE, 1975-1991[a]

(Millions of Cubic Feet)

Division and State	1975	1980	1985	1988	1989	1990R	1991
United States	**20,108,661**	**20,378,787**	**17,524,496**	**18,378,348**	**18,457,604**	**18,883,166**	**18,798,582**
New England	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Middle Atlantic	**92,304**	**113,082**	**181,795**	**190,544**	**212,207**	**202,632**	**175,277**
New Jersey	0	0	0	0	0	0	0
New York	7,628	15,643	31,561	23,455	20,433	25,023	22,777
Pennsylvania	84,676	97,439	150,234	167,089	191,774	177,609	152,500
East North Central	**188,859**	**299,195**	**315,791**	**314,585**	**317,611**	**327,846**	**344,098**
Illinois	1,440	1,574	1,324	1,338	1,477	677	466
Indiana	346	463	367	412	416	399	232
Michigan	102,113	158,302	131,855	146,145	155,988	172,151	195,749
Ohio	84,960	138,856	182,245	166,690	159,730	154,619	147,651
Wisconsin	0	0	0	0	0	0	0
West North Central	**871,006**	**781,124**	**596,667**	**661,226**	**662,723**	**632,846**	**625,024**
Iowa	0	0	0	0	0	0	0
Kansas	843,625	735,035	512,872	592,845	601,196	573,603	565,417
Minnesota	0	0	0	0	0	0	0
Missouri	30	0	4	4	4	7	15
Nebraska	2,565	2,550	1,944	910	878	793	784
North Dakota	24,786	42,346	79,289	63,547	56,276	57,562	57,926
South Dakota	0	1,193	2,558	3,920	4,369	881	882
South Atlantic	**205,683**	**210,175**	**171,553**	**201,636**	**203,485**	**199,960**	**218,955**
Delaware	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	44,383	45,744	11,590	8,241	8,324	7,164	5,415
Georgia	0	0	0	0	0	0	0
Maryland	93	68	39	29	34	22	29
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	6,723	7,812	15,041	18,424	17,935	14,774	14,906
West Virginia	154,484	156,551	144,883	174,942	177,192	178,000	198,605
East South Central	**172,697**	**349,417**	**385,284**	**418,235**	**390,123**	**394,171**	**425,796**
Alabama	37,814	105,527	127,224	149,786	150,542	156,068	190,993
Kentucky	60,511	57,180	73,126	73,629	72,417	75,333	78,904
Mississippi	74,345	185,469	180,248	192,720	165,264	160,703	154,043
Tennessee	27	1,241	5,022	2,100	1,900	2,067	1,856
West South Central	**16,298,056**	**16,195,435**	**13,279,819**	**13,944,053**	**13,889,858**	**14,174,193**	**13,860,327**
Arkansas	116,237	111,808	155,099	166,573	174,158	174,956	164,702
Louisiana	7,090,645	6,939,924	5,013,702	5,180,267	5,078,125	5,241,989	5,034,346
Oklahoma	1,605,410	1,891,824	1,936,341	2,167,050	2,237,037	2,258,471	2,153,850
Texas	7,485,764	7,251,879	6,174,677	6,430,163	6,400,538	6,498,777	6,507,429
Mountain	**1,801,478**	**1,889,983**	**1,776,751**	**1,864,934**	**2,021,406**	**2,182,199**	**2,329,371**
Arizona	208	214	85	56	1,360	2,125	1,225
Colorado	171,629	190,814	186,996	205,196	226,708	252,978	285,961
Idaho	0	0	0	0	0	0	0
Montana	40,734	51,867	52,494	51,654	51,307	50,429	51,999
Nevada	0	0	0	0	0	0	53
New Mexico	1,217,430	1,149,781	905,312	793,227	856,557	966,876	1,040,157
Utah	55,354	87,766	83,405	101,372	120,089	145,875	144,817
Wyoming	316,123	409,541	548,459	713,429	765,385	763,916	805,159
Pacific	**478,578**	**540,376**	**816,836**	**783,133**	**760,192**	**769,319**	**819,734**
Alaska	160,270	230,588	321,346	378,638	393,729	402,907	437,821
California	318,308	309,783	491,410	400,495	363,963	363,597	379,172
Hawaii	0	0	0	0	0	0	0
Oregon	0	5	4,080	4,000	2,500	2,815	2,741
Washington	0	0	0	0	0	0	0

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a. Includes 199,063 million cubic feet of nonhydrocarbon gases in 1980, 326,497 million cubic feet in 1985, 459,883 million cubic feet in 1988, 362,457 million cubic feet in 1989, 289,374 million cubic feet in 1990 and 275,829 in 1991.

R–Revised.

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Annual,* 1991.

TABLE 3-9
NATURAL GAS PRODUCTION PURCHASED BY ALL INTERSTATE NATURAL GAS PIPELINE COMPANIES, BY STATE, 1985-1991

(Millions of Cubic Feet)

Division and State	1985	1986	1987	1988	1989	1990	1991
Total United States	**8,917,751**	**7,578,336**	**6,655,016**	**5,804,155**	**4,843,332**	**4,166,742**	**3,157,986**
New England[a]	**0**	**0**	**0**	**15,547**	**18,255**	**21,308**	**33,386**
Middle Atlantic	**109,281**	**89,192**	**88,892**	**75,056**	**77,330**	**67,701**	**79,098**
New Jersey	0	0	0	0	0	0	0
New York	40,121	31,295	36,757	26,645	34,746	26,587	25,276
Pennsylvania	69,160	57,897	52,135	48,411	42,584	41,114	53,822
East North Central	**75,082**	**34,140**	**36,169**	**38,999**	**29,047**	**19,121**	**12,032**
Illinois	1,219	5,741	14,498	15,399	1,117	1,882	3,617
Indiana	0	0	0	2	1	37	0
Michigan	0	0	1,716	6,850	15,996	6,931	815
Ohio	73,863	28,399	19,955	16,748	11,933	10,271	7,600
Wisconsin	0	0	0	0	0	0	0
West North Central	**431,203**	**381,849**	**277,602**	**211,380**	**210,692**	**124,769**	**106,201**
Iowa	0	0	0	35,902	0	0	0
Kansas	407,636	359,193	223,904	167,339	187,778	112,744	102,153
Minnesota	0	0	0	0	0	0	0
Missouri	0	0	0	0	9,583	0	0
Nebraska	991	770	561	401	320	117	120
North Dakota	21,647	21,210	16,734	16,175	12,462	11,643	3,753
South Dakota	929	676	501	545	549	265	175
South Atlantic	**209,172**	**195,876**	**209,878**	**208,883**	**219,974**	**117,787**	**61,129**
Delaware	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	2,769	1,888	2,189	2,038	1,477	2,606	840
Georgia	0	0	0	0	0	0	0
Maryland	35,616	22	45	71,495	83,776	25	10
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	14,251	61,366	85,059	15,992	16,165	11,089	6,718
West Virginia	156,536	132,600	122,585	119,358	118,556	104,067	53,561
East South Central	**194,620**	**183,042**	**213,233**	**215,798**	**188,060**	**147,163**	**137,132**
Alabama	36,101	25,880	27,527	30,711	34,420	35,658	44,716
Kentucky	45,458	43,869	46,404	47,678	40,689	32,900	26,696
Mississippi	108,984	110,227	136,307	134,754	110,737	76,779	41,484
Tennessee	4,077	3,066	2,995	2,655	2,214	1,826	24,236
West South Central	**6,629,637**	**5,769,879**	**4,899,859**	**4,370,327**	**3,582,467**	**3,208,844**	**2,348,344**
Arkansas	114,516	138,903	166,885	169,578	166,752	140,921	94,307
Louisiana	3,593,587	3,053,072	2,505,273	2,226,857	1,697,644	1,597,442	1,233,649
Oklahoma	824,866	691,530	579,382	511,997	460,564	383,667	257,225
Texas	2,096,668	1,886,374	1,648,319	1,461,895	1,257,507	1,086,814	763,163
Mountain	**1,268,756**	**924,358**	**893,105**	**639,462**	**492,914**	**435,420**	**353,271**
Arizona	0	0	73	9	13	9	0
Colorado	95,180	80,946	69,974	68,045	42,671	31,613	32,134
Idaho	0	0	0	0	0	0	0
Montana	18,021	20,151	15,031	20,980	22,078	25,379	30,558
Nevada	0	0	0	0	0	0	0
New Mexico	739,709	483,939	528,437	314,040	221,865	179,655	92,727
Utah	52,925	37,234	29,839	27,088	21,710	23,093	25,748
Wyoming	362,921	302,088	249,751	209,300	184,577	175,671	172,104
Pacific[b]	**0**	**0**	**20,731**	**27,689**	**24,509**	**24,629**	**27,393**
Undesignated	**0**	**0**	**0**	**38**	**84**	**0**	**0**

a. Massachusetts
b. California

Source: U.S. Department of Energy, Energy Information Adminisration, *Gas Supplies of Interstate Natural Gas Pipeline Companies*, 1991.

TABLE 3-11
INTERSTATE MOVEMENTS AND MOVEMENTS ACROSS U.S. BORDERS OF NATURAL AND SUPPLEMENTAL GAS, 1991[a]

(Millions of Cubic Feet)

Division and State	Interstate Movements			Movements Across U.S. Borders		
	Receipts	Deliveries	Net	Receipts[b]	Deliveries[c]	Net
United States	**49,708,412**	**49,708,412**	**0**	**2,136,173**	**491,832**	**1,644,341**
New England	**702,357**	**303,772**	**398,586**	**46,108**	**0**	**46,108**
Connecticut	239,690	138,751	100,939	0	0	0
Maine	4,839	0	4,839	0	0	0
Massachusetts	272,029	41,353	230,676	30,312	0	30,312
New Hampshire	19,494	4,815	14,680	0	0	0
Rhode Island	166,305	110,202	56,103	0	0	0
Vermont	0	8,651	(8,651)	15,796	0	15,796
Middle Atlantic	**4,187,087**	**2,667,675**	**1,519,412**	**188,233**	**0**	**188,233**
New Jersey	1,049,018	662,376	386,642	0	0	0
New York	1,105,278	414,155	691,123	188,233	0	188,233
Pennsylvania	2,032,791	1,591,144	441,647	0	0	0
East North Central	**7,163,033**	**3,847,830**	**3,315,202**	**1,151**	**361,041**	**(359,890)**
Illinois	1,991,216	981,904	1,009,311	0	0	0
Indiana	1,467,559	1,018,361	449,198	0	0	0
Michigan	942,159	2,506	939,653	1,151	361,041	(359,890)
Ohio	1,889,579	1,295,980	593,599	0	0	0
Wisconsin	872,520	549,079	323,441	0	0	0
West North Central	**5,620,359**	**5,755,222**	**(134,862)**	**741,353**	**0**	**741,353**
Iowa	1,075,376	867,098	208,278	0	0	0
Kansas	906,394	1,182,773	(276,379)	0	0	0
Minnesota	638,534	1,065,366	(426,832)	741,353	0	741,353
Missouri	1,221,675	965,344	256,332	0	0	0
Nebraska	924,993	786,554	138,439	0	0	0
North Dakota	394,319	454,014	(59,695)	0	0	0
South Dakota	459,068	434,073	24,995	0	0	0
South Atlantic	**7,116,782**	**5,759,613**	**1,357,169**	**0**	**0**	**0**
Delaware	41,760	2,894	38,866	0	0	0
District of Columbia	31,872	0	31,872	0	0	0
Florida	335,763	29	335,734	0	0	0
Georgia	1,397,050	1,070,813	326,237	0	0	0
Maryland	931,110	738,910	192,200	0	0	0
North Carolina	928,505	751,862	176,643	0	0	0
South Carolina	1,050,481	923,920	126,562	0	0	0
Virginia	1,077,858	916,463	161,395	0	0	0
West Virginia	1,322,383	1,354,722	(32,339)	0	0	0
East South Central	**14,217,606**	**13,596,745**	**620,861**	**0**	**0**	**0**
Alabama	2,782,487	2,674,828	107,659	0	0	0
Kentucky	3,030,350	2,826,802	203,548	0	0	0
Mississippi	5,193,842	5,069,990	123,852	0	0	0
Tennessee	3,210,927	3,025,125	185,802	0	0	0
West South Central	**4,958,654**	**11,879,617**	**(6,920,964)**	**33,284**	**58,851**	**(25,567)**
Arkansas	2,263,622	2,199,198	64,424	0	0	0
Louisiana	1,654,594	5,181,474	(3,526,880)	33,284	0	33,284
Oklahoma	330,531	1,756,711	(1,426,181)	0	0	0
Texas	709,907	2,742,234	(2,032,327)	0	58,851	(58,851)
Mountain	**3,136,699**	**5,004,109**	**(1,867,409)**	**890,430**	**17,935**	**872,495**
Arizona	1,430,709	1,279,952	150,757	0	1,597	(1,597)
Colorado	576,054	580,145	(4,091)	0	0	0
Idaho	87,574	532,277	(444,703)	496,967	0	496,967
Montana	22,128	408,507	(386,379)	393,463	16,338	377,125
Nevada	69,164	2,230	66,934	0	0	0
New Mexico	707,737	1,517,997	(810,260)	0	0	0
Utah	85,735	48,664	37,071	0	0	0
Wyoming	157,598	634,337	(476,738)	0	0	0
Pacific	**2,605,833**	**893,829**	**1,712,004**	**235,614**	**54,005**	**181,609**
Alaska	0	0	0	0	54,005	(54,005)
California	1,623,693	0	1,623,693	0	0	0
Hawaii	0	0	0	0	0	0
Oregon	488,666	405,163	83,503	0	0	0
Washington	493,474	488,666	4,808	235,614	0	235,614

a. Supplemental Gas Supplies totaled 112,732 million cubic feet. See Table 3-16.
b. For detail by country see Table 3-13.
c. For detail by country see Table 3-12.
Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Annual*, 1991.

TABLE 3-3
SUPPLY AND DISPOSITION OF GAS IN THE UNITED STATES, 1969–1991

(Millions of Cubic Feet)

	Gross Production[a]						Disposition of Marketed Production									
Year	Gas Wells	Oil Wells	Total	Repressuring	Vented and Flared	Marketed Production[b]	Extraction Loss	Lease and Plant Fuel	Net Change in Storage	Pipeline Fuel	Balancing Item	Nonhydrocarbon Gases	Domestic Dry Production For Sale	Net Imports	Supplemental Supplies	Delivered to Consumers[c]
1969	17,489,415	5,189,780	22,679,195	1,455,205	525,750	20,698,240	866,560	1,345,648	119,500	630,962	331,587	d	17,403,983	675,647	d	18,079,630
1970	18,594,658	5,191,795	23,786,453	1,376,351	489,460	21,920,642	906,413	1,398,758	398,160	722,166	227,650	d	18,267,495	750,967	d	19,018,462
1971	18,925,136	5,162,895	24,088,031	1,310,458	284,561	22,493,012	883,127	1,413,650	331,768	742,592	338,999	d	18,782,876	854,336	d	19,637,212
1972	19,042,592	4,973,517	24,016,109	1,236,292	248,119	22,531,698	907,993	1,455,563	135,734	766,156	328,002	d	18,938,250	941,483	d	19,879,733
1973	19,371,600	4,695,602	24,067,202	1,171,361	248,292	22,647,549	916,551	1,495,915	441,504	728,177	195,863	d	18,869,539	955,732	d	19,825,271
1974	18,669,212	4,180,581	22,849,793	1,079,890	169,381	21,600,522	887,490	1,477,386	83,663	668,792	288,731	d	18,194,460	882,495	d	19,076,955
1975	17,380,293	3,723,237	21,103,530	860,956	133,913	20,108,661	872,282	1,396,277	344,054	582,963	235,068	d	16,678,020	880,333	d	17,558,353
1976	17,190,655	3,753,123	20,943,778	859,410	131,930	19,952,438	854,086	1,634,355	(165,327)	548,323	216,240	d	16,864,760	899,058	d	17,763,818
1977	17,415,983	3,681,088	21,097,071	934,801	136,807	20,025,463	862,563	1,659,145	556,631	532,669	41,063	d	16,373,392	955,375	d	17,328,767
1978	17,394,213	3,914,602	21,308,815	1,181,432	153,350	19,974,033	852,130	1,647,911	120,237	530,451	287,201	d	16,536,103	913,013	d	17,449,116
1979	18,033,879	3,849,474	21,883,353	1,245,074	167,019	20,471,260	807,845	1,498,530	248,034	600,964	372,330	d	16,943,557	1,197,710	d	18,141,267
1980	17,572,526	4,297,166	21,869,692	1,365,454	125,451	20,378,787	776,605	1,026,438	(23,269)	634,622	639,559	199,063	17,125,769	935,874	154,590	18,216,233
1981	17,336,862	4,250,591	21,587,453	1,311,735	98,017	20,177,701	774,562	927,591	297,430	642,325	500,501	221,878	16,813,414	844,826	175,702	17,833,942
1982	15,802,614	4,407,314	20,209,928	1,388,392	93,365	18,728,171	761,942	1,109,398	308,199	596,411	474,736	208,492	15,268,993	881,441	144,811	16,295,245
1983	14,146,668	4,450,426	18,597,095	1,458,054	94,962	17,044,081	789,632	978,249	(447,299)	490,042	642,061	221,937	14,369,459	865,268	131,894	15,366,621
1984	15,505,073	4,686,746	20,191,820	1,630,152	107,913	18,453,755	837,867	1,076,881	196,835	528,754	142,600	224,118	15,446,700	788,216	109,977	16,344,893
1985	14,528,147	5,006,326	19,534,475	1,915,197	94,778	17,524,500	816,370	966,047	(234,756)	503,766	354,065	326,497	14,792,511	892,256	126,363	15,811,130
1986	14,147,014	4,915,932	19,062,947	1,837,552	97,633	17,127,762	799,645	922,524	146,910	485,041	426,726	336,851	14,010,064	690,478	113,189	14,813,731
1987[R]	14,806,962	5,333,237	20,140,200	2,207,559	123,707	17,808,934	812,320	1,149,383	6,159	519,170	443,231	376,033	14,502,638	938,512	101,382	15,542,256
1988[R]	15,467,023	5,532,229	20,999,255	2,478,382	142,525	18,378,348	815,844	1,095,883	(69,293)	613,912	452,492	459,883	15,009,627	1,220,174	101,134	16,319,793
1989[R]	15,708,861	5,365,564	21,074,425	2,475,179	141,642	18,457,604	784,502	1,069,902	(312,504)	629,308	217,526	362,457	15,706,413	1,274,649	106,745	17,101,615
1990[R]	16,053,566	5,469,055	21,522,622	2,489,040	150,415	18,883,167	784,118	1,235,329	499,664	659,816	151,863	289,374	15,263,003	1,446,694	122,806	16,818,882
1991	15,978,891	5,761,354	21,740,245	2,771,813	169,848	18,798,584	834,637	1,148,361	(80,355)	600,891	471,420	275,829	15,538,801	1,644,069	112,732[e]	17,304,704

a. Includes gas (mostly residue gas) blown to the air but does not include direct waste on producing properties, except where data are available.
b. "Marketed Production" equals "Total Gross Production" less "Repressuring" and "Vented and Flared." It includes an allowance for natural gas liquids content in the natural gas and nonhydrocarbon gases.
c. Defined as Domestic Dry Production For Sale plus Net Imports plus Supplemental Gas Supplies. See Table 3-16 for details on Supplemental Gas Supplies.
d. 1980 is the first year these data are available.
e. For detail see Table 3-16.
( ): Denotes negative.
R–Revised.

Note: 1992 data reported by U.S. Department of Energy, *Monthly Energy Review*, March 1993 are as follows: "Marketed Production (wet)—18,577,000 million of cubic feet (MMcf); "Net Imports"—1,817,000 MMcf; "Net Change in Underground Storage"—(185,000) MMcf.

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Annual*, 1991.

TABLE 3-10
TOTAL OFFSHORE PRODUCTION OF NATURAL GAS AND PERCENT STATE/FEDERALLY CONTROLLED, BY STATE, 1971–1991

	Alaska			California			Louisiana			Texas			Total		
		Percent			Percent			Percent			Percent			Percent	
Year	MMcf	State	OCS	MMcf	State	OCS	MMcf	State	OCS	MMcf	State	OCS	MMcf	State	OCS
1971	86,326	100	—	61,448	74	26	3,207,475	18	82	235,600	67	33	3,590,850	23	77
1972	76,819	100	—	44,781	78	22	3,485,003	17	83	277,282	47	53	3,883,885	22	78
1973	74,655	100	—	37,883	81	19	3,612,878	15	85	251,038	41	59	3,976,454	19	81
1974	74,672	100	—	34,505	84	16	3,867,751	13	87	269,577	41	59	4,246,505	17	83
1975	76,295	100	—	27,272	85	15	3,840,631	13	87	220,530	44	56	4,164,727	17	83
1976	74,143	100	—	22,459	84	16	4,012,801	13	87	205,993	55	45	4,315,396	17	83
1977	77,540	100	—	17,527	81	19	4,133,610	12	88	268,250	68	32	4,496,927	17	83
1978	74,910	100	—	17,668	80	20	4,639,460	11	89	402,000	42	58	5,134,039	15	85
1979	73,792	100	—	16,417	82	18	4,635,487	10	90	719,208	29	71	5,444,904	14	86
1980	64,543	100	—	16,182	81	19	4,422,492	9	91	879,020	29	71	5,382,236	14	86
1981	72,307	100	—	26,237	51	49	4,480,934	8	92	966,983	24	76	5,546,462	12	88
1982	68,372	100	—	31,758	44	56	4,163,089	9	91	1,104,987	22	78	5,368,207	13	87
1983	68,837	100	—	29,878	46	54	3,490,146	9	91	998,951	15	85	4,587,812	12	88
1984	68,688	100	—	41,643	33	67	3,892,103	8	92	1,043,384	11	89	5,045,819	10	90
1985	62,796	100	—	68,647	28	72	3,346,856	7	93	943,057	11	89	4,421,357	9	91
1986	63,351	100	—	60,942	30	70	3,155,961	7	93	1,093,497	10	90	4,373,751	10	90
1987	61,233	100	—	53,991	24	76	3,401,277	7	93	1,303,074	8	92	4,819,576	8	92
1988	66,971	100	—	45,286	24	76	3,307,312	6	94	1,276,500	8	92	4,696,069	8	92
1989	82,116	100	—	37,603	24	76	3,206,577	6	94	1,276,619	9	91	4,602,915	9	91
1990	104,812	100	—	46,537	17	83	3,884,987	5	95	1,457,071	7	93	5,493,407	7	93
1991P	172,602	100	0	48,204	16	84	3,475,591	5	95	1,283,967	8	92	5,045,927	10	90

Source: U.S. Department of the Interior, Minerals Management Service, *Federal Offshore Statistics*.
Note: Totals may not add due to independent rounding.
P–Preliminary.

TABLE 3-12

EXPORTS OF NATURAL GAS FROM THE UNITED STATES, 1972–1992

(Millions of Cubic Feet)

Year	Total	Canada	Mexico	Japan[a]
1972	78,014	15,553	14,579	47,882
1973	77,169	14,824	13,999	48,346
1974	76,789	13,263	13,268	50,258
1975	72,675	10,219	9,454	53,002
1976	64,710	7,506	7,425	49,779
1977	55,626	31	3,940	51,655
1978	52,533	66	4,033	48,434
1979	55,673	76	4,308	51,289
1980	48,731	113	3,886	44,732
1981	59,372	106	3,337	55,929
1982	51,728	162	1,705	49,861
1983	54,639	136	1,646	52,857
1984	54,753	127	1,786	52,840
1985	55,268	178	2,207	52,883
1986	61,271	9,203	1,896	50,172
1987	54,020	3,297	2,125	48,599
1988	73,638	19,738	2,327	51,573
1989	106,871	38,443	17,004	51,424
1990	85,565	17,359	15,659	52,546
1991	129,244	14,791	60,448	54,005
1992	216,282	67,777	95,973	52,532

a. LNG exports from Alaska.
Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Monthly*.

TABLE 3-13

IMPORTS OF NATURAL GAS TO THE UNITED STATES, 1972–1992

(Millions of Cubic Feet)

Year	Total	Canada	Mexico	Algeria[a]
1972	1,019,496	1,009,323	8,140	2,032
1973	1,032,901	1,027,883	1,632	3,388
1974	959,284	959,063	222	0
1975	953,008	948,115	0	4,893
1976	963,768	953,613	0	10,155
1977	1,011,002	997,295	2,384	11,324
1978	965,545	881,123	0	84,422
1979	1,253,383	1,000,775	0	252,608
1980	984,767	796,507	102,410	85,850
1981	903,949	762,113	105,013	36,824
1982	933,336	783,407	94,794	55,136
1983	918,407	711,923	75,361	131,124
1984	843,060	755,368	51,502	36,191
1985	949,715	926,056	0	23,659
1986	750,449	748,780	0	1,669
1987	992,532	992,532	0	0
1988	1,293,812	1,276,322	0	17,490
1989	1,381,520	1,339,357	0	42,163
1990	1,532,259	1,448,065	0	84,193
1991	1,773,312	1,709,716	0	63,596
1992	2,137,504	2,094,387	0	43,116

a. Quantities represent total LNG imports from overseas into the U.S.
Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Monthly*.

TABLE 3-14

NATURAL GAS DELIVERED TO CONSUMERS BY STATE, 1975-1991[a]

(Millions of Cubic Feet)

Division and State	1975	1980	1985	1988	1989	1990[R]	1991[b]
United States	**17,558,353**	**18,216,233**	**15,811,130**	**16,319,793**	**17,101,615**	**16,818,882**	**17,304,704**
New England	**254,070**	**297,506**	**343,158**	**348,987**	**399,255**	**415,157**	**431,508**
Connecticut	63,968	72,512	77,864	87,592	94,487	97,147	101,380
Maine	13,534[c]	2,166	2,465	3,191	3,672	4,350	4,789
Massachusetts	153,461	181,912	217,503	208,998	247,205	256,979	250,028
New Hampshire	d	9,448	10,545	12,987	13,925	14,252	14,094
Rhode Island	23,107	27,477	29,733	30,668	33,821	35,668	54,148
Vermont	d	3,991	4,993	5,551	6,145	6,761	7,069
Middle Atlantic	**1,451,698**	**1,818,067**	**1,723,100**	**1,822,776**	**1,942,575**	**1,886,137**	**1,931,309**
New Jersey	242,714	339,358	376,982	411,415	453,110	425,218	460,521
New York	573,699	733,800	758,031	784,673	839,957	857,517	869,100
Pennsylvania	634,285	744,909	588,087	626,688	649,508	603,402	601,688
East North Central	**3,718,831**	**3,628,619**	**3,090,195**	**3,225,937**	**3,311,611**	**3,196,511**	**3,309,795**
Illinois	1,080,787	1,074,771	946,614	952,529	981,948	927,261	976,374
Indiana	467,736	480,346	428,124	447,542	453,585	442,512	452,690
Michigan	865,539	846,278	690,493	722,598	749,613	790,441	798,489
Ohio	944,925	883,613	719,393	790,436	799,852	731,609	755,118
Wisconsin	359,844	343,611	305,571	312,832	326,612	304,688	327,124
West North Central	**1,686,051**	**1,455,928**	**1,165,391**	**1,177,768**	**1,170,530**	**1,148,360**	**1,239,553**
Iowa	329,703	256,900	215,553	228,538	215,294	209,051	226,476
Kansas	402,273	411,494	274,900	264,539	254,361	271,265	293,035
Minnesota	327,315	276,717	251,243	272,585	287,997	278,570	301,144
Missouri	362,130	312,872	255,636	248,022	247,363	233,408	253,765
Nebraska	207,371	152,283	120,496	117,234	115,293	107,500	113,409
North Dakota	24,757	21,660	22,682	22,876	24,959	23,779	26,195
South Dakota	32,502	24,002	24,881	23,974	25,263	24,787	25,529
South Atlantic	**1,268,171**	**1,390,415**	**1,221,828**	**1,342,917**	**1,424,759**	**1,421,871**	**1,449,395**
Delaware	18,603	29,797	38,488	29,253	34,919	39,124	41,944
District of Columbia	e	27,868	28,526	30,728	33,174	28,611	30,836
Florida	271,471	304,638	278,666	282,792	310,493	322,516	336,895
Georgia	322,383	307,827	276,446	316,105	310,542	303,674	315,634
Maryland	163,462[f]	156,300	148,489	170,326	187,512	169,863	170,561
North Carolina	111,276	147,448	129,081	146,790	156,105	154,927	160,172
South Carolina	120,308	139,214	95,225	109,817	114,237	127,595	131,020
Virginia	118,083	149,980	134,589	154,756	167,450	173,437	167,709
West Virginia	142,585	127,343	92,218	100,595	110,327	102,124	94,624
East South Central	**809,664**	**856,158**	**727,003**	**746,181**	**781,183**	**784,706**	**815,294**
Alabama	245,287	242,793	202,901	217,586	225,395	219,286	228,477
Kentucky	182,781	180,368	149,102	160,332	165,565	156,560	165,028
Mississippi	183,807	219,828	195,058	171,168	186,597	208,699	210,479
Tennessee	197,789	213,169	179,942	197,095	203,626	200,161	211,310
West South Central	**5,332,025**	**5,873,159**	**4,720,819**	**4,878,573**	**5,159,458**	**5,041,621**	**5,096,542**
Arkansas	241,803	260,319	174,991	197,208	228,378	216,630	199,276
Louisiana	1,425,686	1,523,691	1,086,006	1,116,676	1,232,511	1,256,987	1,258,858
Oklahoma	565,387	639,642	473,906	460,130	474,118	466,827	456,705
Texas	3,099,149	3,449,507	2,985,916	3,104,559	3,224,451	3,101,177	3,181,703
Mountain	**982,840**	**842,444**	**657,276**	**657,725**	**725,225**	**695,726**	**756,807**
Arizona	139,130	144,311	112,228	106,017	127,177	101,378	101,473
Colorado	294,760	241,765	200,976	208,087	218,766	212,655	228,283
Idaho	56,182	44,835	36,243	36,646	40,710	40,431	46,467
Montana	75,441	54,460	42,879	37,587	41,575	38,856	41,401
Nevada	61,251	58,284	39,087	48,031	62,950	64,086	64,465
New Mexico	172,638	146,579	78,453	94,650	101,126	96,551	102,206
Utah	116,620	106,647	104,915	90,702	96,288	96,054	118,164
Wyoming	66,818	45,363	42,495	36,005	36,633	45,715	54,348
Pacific	**2,055,003**	**2,053,937**	**2,162,360**	**2,118,932**	**2,187,018**	**2,228,793**	**2,274,500**
Alaska	66,815	122,966	143,470	132,017	127,414	147,002	141,426
California	1,727,729	1,729,650	1,806,398	1,762,480	1,799,042	1,821,213	1,847,922
Hawaii	0	3,131	2,483	2,614	2,694	2,788	2,694
Oregon	101,980	73,083	78,297	78,996	99,448	100,108	114,557
Washington	158,479	125,107	131,712	142,825	158,420	157,682	167,901

a. Includes deliveries made directly to end users in addition to gas utility sales as shown in Table 6-7.

b. Includes 112,732 million cubic feet (MMcf) of Supplemental Gas Supplies, less 275,829. MMcf of Nonhydrocarbon Gases.

c. Includes New Hampshire and Vermont.

d. Included in Maine.

e. Included in Maryland.

f. Includes District of Columbia.

R–Revised.

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Annual*, 1991.

TABLE 3-15
TRANSPORTATION VOLUMES DELIVERED TO END USERS, 1988-1991[a]

(Millions of Cubic Feet)

Division and State	1988		1989		1990[R]		1991	
	Industrial	Electric Generation	Industrial	Electric Generation	Industrial	Electric Generation	Industrial	Electric Generation
United States	**3,663,187**	**1,076,253**	**4,297,692**	**1,152,181**	**4,544,543**	**1,390,341**	**4,863,924**	**1,580,078**
New England	**1,367**	**2**	**3,062**	**6,940**	**8,586**	**24,157**	**49,551**	**23,121**
Connecticut	453	0	1,681	2,519	3,572	4,796	10,370	4,518
Maine	0	0	0	0	70	0	91	0
Massachusetts	254	2	566	4,079	4,309	18,328	15,856	16,832
New Hampshire	0	0	0	0	52	0	202	0
Rhode Island	660	0	815	342	583	1,033	23,032	1,771
Vermont	0	0	0	0	0	0	0	0
Middle Atlantic	**208,786**	**11,761**	**262,781**	**19,435**	**276,641**	**24,003**	**311,450**	**27,342**
New Jersey	27,017	315	32,598	1,144	36,790	1,432	44,419	2,056
New York	47,259	10,511	58,333	16,216	60,359	21,280	83,934	23,485
Pennsylvania	134,510	935	171,850	2,075	179,492	1,291	183,097	1,801
East North Central	**802,803**	**7,216**	**841,128**	**9,337**	**955,856**	**35,982**	**997,618**	**41,815**
Illinois	175,591	2,461	196,197	4,603	221,564	6,682	256,186	9,150
Indiana	167,798	1,979	172,022	2,933	179,733	5,011	178,941	7,997
Michigan	153,051	1,934	158,992	885	247,139	23,015	242,652	20,960
Ohio	227,745	0	233,517	301	239,551	656	246,062	2,695
Wisconsin	78,618	842	80,400	615	67,869	618	73,777	1,013
West North Central	**198,779**	**9,131**	**217,900**	**15,768**	**262,528**	**25,342**	**290,623**	**31,604**
Iowa	60,931	1,784	49,800	1,183	58,222	1,137	70,066	1,256
Kansas	68,052	4,003	78,314	9,827	95,606	17,288	104,828	23,059
Minnesota	34,281	1,463	42,966	1,553	51,265	1,970	53,727	1,657
Missouri	16,101	1,879	24,219	2,485	36,711	2,015	42,745	2,869
Nebraska	15,783	2	17,311	679	14,304	2,793	13,266	2,612
North Dakota	2,206	0	3,336	0	3,296	0	3,901	0
South Dakota	1,425	0	1,954	41	3,124	139	2,090	151
South Atlantic	**168,828**	**29,525**	**278,367**	**16,494**	**315,938**	**84,395**	**323,793**	**186,587**
Delaware	3,089	409	3,682	313	4,847	35	5,509	39
District of Columbia	0	0	0	0	0	0	0	0
Florida	18,054	16,059	19,078	11,526	34,996	68,783	49,468	168,412
Georgia	80,806	0	97,521	0	101,295	0	105,563	0
Maryland	39,873	0	44,669	0	39,245	8,483	39,686	6,430
North Carolina	13,263	840	24,687	1,593	24,962	2,149	23,348	2,106
South Carolina	13,667	0	15,959	0	20,817	0	25,368	0
Virginia	25,852	654	36,779	3,062	53,144	4,945	42,709	9,441
West Virginia	33,433	0	35,992	0	36,632	0	32,142	159
East South Central	**181,791**	**26,896**	**224,620**	**47,241**	**242,861**	**65,262**	**264,556**	**60,517**
Alabama	70,229	886	93,168	1,456	96,889	2,287	106,274	3,045
Kentucky	37,451	0	44,164	0	50,673	0	52,422	32
Mississippi	40,868	26,010	47,098	45,785	51,694	62,412	54,398	57,297
Tennessee	33,243	0	40,190	0	43,605	563	51,462	143
West South Central	**1,685,691**	**895,316**	**1,969,023**	**849,241**	**1,887,178**	**936,643**	**1,922,857**	**899,941**
Arkansas	79,343	0	104,237	19,593	93,332	29,049	84,515	25,180
Louisiana	331,658	181,223	476,295	170,098	483,858	231,753	505,590	209,258
Oklahoma	97,836	163,015	89,950	166,455	78,309	160,721	104,773	131,393
Texas	1,176,854	551,078	1,298,541	493,095	1,231,679	515,120	1,227,979	534,110
Mountain	**106,244**	**45,697**	**126,188**	**73,647**	**145,081**	**66,414**	**168,328**	**72,492**
Arizona	17,155	20,431	11,478	25,708	10,421	14,222	9,966	13,831
Colorado	23,309	4,603	29,106	5,624	33,799	4,904	36,685	6,097
Idaho	19,961	0	22,781	0	23,075	0	26,565	0
Montana	1,101	0	2,600	0	3,306	118	4,493	178
Nevada	4,964	6,903	6,966	22,374	6,457	23,193	5,687	21,403
New Mexico	11,611	13,760	15,473	19,941	16,346	23,532	17,305	26,421
Utah	16,092	0	24,288	0	28,108	445	36,534	4,562
Wyoming	12,051	0	13,496	0	23,569	0	31,093	0
Pacific	**249,691**	**62,273**	**374,623**	**114,082**	**449,865**	**128,143**	**535,148**	**236,659**
Alaska	30,824	5,908	26,605	6,773	28,165	6,495	23,363	0
California	171,228	55,488	283,611	87,126	346,643	114,142	422,738	225,773
Hawaii	0	0	0	0	0	0	0	0
Oregon	26,019	0	34,133	13,148	38,128	7,458	44,521	10,798
Washington	21,620	877	30,274	7,035	36,929	48	44,526	88

a. Is part of the total deliveries to end users as shown in Table 3-14.
R–Revised.
Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Annual*, 1991.

TABLE 3-16
SUPPLEMENTAL GAS SUPPLIES BY STATE, 1991

(Millions of Cubic Feet)

Division and State	Total	Synthetic Natural Gas	Propane-Air	Refinery Gas	Other[a]
United States	**112,732**	**62,131**	**1,583**	**18,056**	**30,962**
New England	**492**	**0**	**492**	**0**	**0**
Connecticut	146	0	146	0	0
Maine	0	0	0	0	0
Massachusetts	120	0	120	0	0
New Hampshire	128	0	128	0	0
Rhode Island	92	0	92	0	0
Vermont	6	0	6	0	0
Middle Atlantic	**15,815**	**0**	**383**	**13,237**	**2,195**
New Jersey	14,915	0	126	13,237	1,552[b,c]
New York	678	0	35	0	643[c]
Pennsylvania	222	0	222	0	0
East North Central	**25,854**	**6,849**	**275**	**604**	**18,126**
Illinois	6,870	6,849	21	0	0
Indiana	3,077	0	232	604	2,241[d]
Michigan	15,015	0	3	0	15,012[f]
Ohio	891	0	18	0	873[c]
Wisconsin	1	0	1	0	0
West North Central	**54,687**	**52,557**	**56**	**0**	**2,074**
Iowa	46	0	3	0	43[c]
Kansas	0	0	0	0	0
Minnesota	49	0	49	0	0
Missouri	0	0	0	0	0
Nebraska	2,032	0	3	0	2,029[c,e]
North Dakota	52,557	52,557	0	0	0
South Dakota	3	0	1	0	2[c]
South Atlantic	**4,806**	**0**	**299**	**4,215**	**292**
Delaware	4,262	0	47	4,215	0
District of Columbia	0	0	0	0	0
Florida	0	0	0	0	0
Georgia	185	0	11	0	174[c]
Maryland	72	0	72	0	0
North Carolina	0	0	0	0	0
South Carolina	47	0	47	0	0
Virginia	240	0	122	0	118[b]
West Virginia	0	0	0	0	0
East South Central	**341**	**0**	**38**	**0**	**303**
Alabama	331	0	28	0	303[c]
Kentucky	2	0	2	0	0
Mississippi	0	0	0	0	0
Tennessee	8	0	8	0	0
West South Central	**1,076**	**0**	**1**	**0**	**1,075**
Arkansas	0	0	0	0	0
Louisiana	0	0	0	0	0
Oklahoma	0	0	0	0	0
Texas	1,076	0	1	0	1,075[c]
Mountain	**6,778**	**0**	**21**	**0**	**6,757**
Arizona	0	0	0	0	0
Colorado	6,778	0	21	0	6,757[e]
Idaho	0	0	0	0	0
Montana	0	0	0	0	0
Nevada	0	0	0	0	0
New Mexico	0	0	0	0	0
Utah	0	0	0	0	0
Wyoming	0	0	0	0	0
Pacific	**2,882**	**2,725**	**17**	**0**	**140**
Alaska	0	0	0	0	0
California	0	0	0	0	0
Hawaii	2,725	2,725	0	0	0
Oregon	4	0	4	0	0
Washington	153	0	13	0	140[c]

a. Includes coke oven gas, manufactured gas, biomass gas, and air injection for Btu stabilization.
b. Manufactured gas.
c. Biomass gas.
d. Coke oven gas.
e. Air injection for Btu stabilization.
f. Blast furnace gas.

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Annual*, 1991.

TABLE 3-17
NUMBER OF PRODUCING GAS WELLS, BY STATE, 1975-1992[a]

Division and State	1975	1980	1985	1989	1990	1991[R]	1992[P]
United States	**132,095**	**182,004**	**243,344**	**262,483**	**269,790**	**276,987**	**280,899**
New England	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Middle Atlantic	**18,200**	**21,976**	**31,000**	**35,304**	**35,825**	**36,737**	**37,108**
New Jersey	0	0	0	0	0	0	0
New York	900	2,076	4,500	5,304	5,525	5,737	5,765
Pennsylvania	17,300	19,900	26,500	30,000	30,300	31,000	31,343
East North Central	**11,110**	**18,442**	**33,393**	**37,208**	**37,687**	**39,087**	**38,901**
Illinois	41	70	123	241	356	373	380
Indiana	478	698	1,272	1,310	1,307	1,334	1,326
Michigan	209	423	655	1,207	1,438	2,620	2,611
Ohio	10,382	17,251	31,343	34,450	34,586	34,760	34,584
Wisconsin	0	0	0	0	0	0	0
West North Central	**8,925**	**12,935**	**16,109**	**14,068**	**17,156**	**18,120**	**14,609**
Iowa	0	0	0	0	0	0	0
Kansas	8,865	12,820	15,980	13,935	16,980	17,948	14,467
Minnesota	0	0	0	0	0	0	0
Missouri	3	0	4	4	8	6	0
Nebraska	19	22	19	15	11	12	0
North Dakota	18	80	62	61	103	100	102
South Dakota	20	13	44	53	54	54	40
South Atlantic	**21,901**	**26,167**	**32,977**	**37,000**	**38,326**	**38,693**	**39,010**
Delaware	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	0	0	0	0	0	0
Georgia	0	0	0	0	0	0	0
Maryland	15	9	7	8	7	7	0
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	186	258	495	752	819	886	1,030
West Virginia	21,700	25,900	32,475	36,240	37,500	37,800	37,980
East South Central	**7,684**	**8,922**	**11,846**	**14,192**	**15,350**	**16,840**	**16,909**
Alabama	45	314	863	1,701	2,362	3,392	3,329
Kentucky	7,386	7,984	9,285	11,248	11,713	12,169	12,483
Mississippi	248	447	710	543	585	629	507
Tennessee	5	177	988	700	690	650	590
West South Central	**48,440**	**71,447**	**88,415**	**95,191**	**95,255**	**93,882**	**89,826**
Arkansas	1,128	1,114	2,623	2,830	2,952	2,780	2,822
Louisiana	11,359	16,190	16,716	16,309	16,889	15,271	12,998
Oklahoma	9,769	16,419	24,756	27,443	24,547	28,216	27,935
Texas	26,184	37,724	44,320	48,609	50,867	47,615	46,071
Mountain	**14,189**	**20,914**	**27,945**	**28,180**	**28,899**	**32,125**	**39,825**
Arizona	1	1	1	3	5	6	0
Colorado	1,380	2,997	4,401	5,125	5,741	5,562	6,195
Idaho	0	0	0	0	0	0	0
Montana	1,235	1,881	2,260	2,700	2,607	2,802	2,972
Nevada	0	0	0	0	0	0	0
New Mexico	10,352	14,571	18,308	17,087	17,124	20,021	26,914
Utah	271	200	755	834	822	913	882
Wyoming	950	1,264	2,220	2,431	2,600	2,821	2,862
Pacific	**1,646**	**1,201**	**1,659**	**1,340**	**1,292**	**1,503**	**1,236**
Alaska	61	71	84	108	111	110	120
California	1,585	1,125	1,566	1,214	1,162	1,377	1,116
Hawaii	0	0	0	0	0	0	0
Oregon	0	5	9	18	19	16	0
Washington	0	0	0	0	0	0	0
Other States[c]	**0**	**0**	**0**	**0**	**0**	**0**	**54**
Federal Waters	**b**	**b**	**b**	**b**	**b**	**b**	**3,421**

a. Data pertain only to dry gas and condensate wells. Data as of December 31.
b. "Federal Waters" is included in Texas, Louisiana, and California totals.
c. Includes Arizona, Maryland, Missouri, Nebraska, Nevada, Oregon.
R–Revised. P–Preliminary.
Source: Preliminary numbers taken from *World Oil*, February, 1993. Revised numbers taken from U.S. Department of Energy, Energy Information Administration, *Natural Gas Annual*, 1991.

TABLE 3-18
NEW GAS WELL COMPLETIONS, BY STATE, 1975-1992[a]

Division and State	1975	1980	1985	1989	1990R	1991R	1992P
United States	**8,169**	**17,132**	**12,875**[b]	**8,973**	**10,242**	**8,572**	**4,763**
New England	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Middle Atlantic	**964**	**1,634**	**1,777**	**858**	**584**	**395**	**81**
New Jersey	0	0	0	0	0	0	0
New York	362	368	312	83	71	8	8
Pennsylvania	602	1,266	1,465	775	513	387	73
East North Central	**835**	**2,795**	**1,208**	**1,090**	**1,216**	**885**	**436**
Illinois	5	14	38	45	24	7	9
Indiana	17	46	24	11	14	12	5
Michigan	34	52	42	615	800	552	322
Ohio	779	2,683	1,104	419	378	314	100
Wisconsin	0	0	0	0	0	0	0
West North Central	**501**	**681**	**512**	**594**	**643**	**502**	**185**
Iowa	0	0	0	0	0	0	0
Kansas	499	642	502	582	636	499	181
Minnesota	0	0	0	0	0	0	0
Missouri	1	2	2	0	2	0	0
Nebraska	1	3	1	8	0	2	4
North Dakota	0	14	4	3	4	1	0
South Dakota	0	20	3	1	1	0	0
South Atlantic	**595**	**1,545**	**1,250**	**758**	**812**	**668**	**303**
Delaware	0	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0	0
Florida	0	1	1	0	0	0	0
Georgia	0	0	0	0	0	0	0
Maryland	0	0	0	0	0	0	0
North Carolina	0	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0	0
Virginia	26	17	84	16	46	2	0
West Virginia	569	1,527	1,165	742	766	666	303
East South Central	**242**	**581**	**683**	**931**	**1,467**	**1,392**	**353**
Alabama	34	64	116	375	886	1,015	162
Kentucky	128	191	415	485	506	333	172
Mississippi	32	69	58	52	55	24	18
Tennessee	48	257	94	19	20	20	1
West South Central	**3,872**	**7,627**	**5,720**	**3,437**	**3,530**	**2,950**	**1,956**
Arkansas	24	121	256	128	126	108	102
Louisiana	830	1,787	1,007	538	618	420	201
Oklahoma	667	2,146	1,483	900	867	750	478
Texas	2,351	3,573	2,974	1,871	1,919	1,672	1,175
Mountain	**1,108**	**2,179**	**1,195**	**1,214**	**1,878**	**1,699**	**1,384**
Arizona	0	0	0	0	2	0	0
Colorado	268	546	399	489	698	718	777
Idaho	0	0	0	0	0	0	0
Montana	265	226	83	129	192	149	121
Nevada	0	1	0	0	0	0	0
New Mexico	464	1,061	577	425	745	555	200
Utah	16	97	62	17	18	91	131
Wyoming	95	248	74	154	223	186	155
Pacific	**52**	**90**	**123**	**78**	**97**	**66**	**58**
Alaska	3	2	0	2	6	5	6
California	49	86	120	72	89	58	50
Hawaii	0	0	0	0	0	0	0
Oregon	0	2	3	4	2	3	2
Washington	0	0	0	0	0	0	0
Federal Waters	**0**	**0**	**206**	**13**	**15**	**15**	**7**

a. Data are published "as reported"; therefore, recent periods are incomplete and understate actual drilling levels. See detailed explanation at the beginning of this section.

b. Reflects API estimates. State totals do not add to U.S. total. See Footnote a.

R–Revised. P–Preliminary.

Source: American Petroleum Institute, *Well Completions and Footage Drilled in the U.S.* (Data for 1975, 1980 and 1985); *Quarterly Completion Report*, Fourth Quarter, 1986 (1984 Data); Fourth Quarter, 1985 (1983 Data); Second Quarter, 1987 (1985 Data); Fourth Quarter, 1989 (1986 and 1987 data); Fourth Quarter, 1990; Fourth Quarter, 1991 (1989); Fourth Quarter, 1992 (1990, 1991 and 1992 data).

TABLE 3-19
NEW FIELD WILDCAT WELLS DRILLED AND PROPORTION SUCCESSFUL
1973-1992[a]

Year	Total Drilled	Dry	Productive	Percent Productive
1973	5,096	4,346	750	14.7
1974	5,946	5,084	862	14.5
1975	6,238	5,315	923	14.8
1976	5,856	4,871	985	16.8
1977	6,162	5,170	992	16.1
1978	6,731	5,603	1,128	16.8
1979	6,423	5,203	1,220	19.0
1980	7,332	5,973	1,359	18.5
1981	9,151	7,563	1,588	17.4
1982	7,386	6,061	1,325	17.9
1983	6,057	5,063	994	16.4
1984	6,528	5,545	983	15.1
1985	5,569	4,801	768	13.8
1986	3,484	2,996	488	14.0
1987	3,515	3,007	508	14.5
1988	3,271	2,807	464	14.2
1989	2,644	2,277	367	13.9
1990	2,661	2,240	421	15.8
1991	2,064	1,758	306	14.8
1992[P]	1,451	1,255	196	13.5

a. Data are published "as reported"; therefore, recent periods are incomplete and understate actual drilling levels. See detailed explanation at the beginning of this section.

P–Preliminary.

Source: American Petroleum Institute, *Quarterly Completion Report*, Fourth Quarter, 1992.

TABLE 3-20
NEW WELL COMPLETIONS, BY TYPE OF WELL, 1973-1992[a]

Year	Total[b]	Oil	Gas	Dry	Service[c]
1973	27,692	10,251	6,975	10,466	908
1974	33,037	13,664	7,168	12,205	1,132
1975	38,884	16,979	8,169	13,736	1,612
1976	40,940	17,697	9,438	13,805	1,528
1977	45,855	18,700	12,119	15,036	1,320
1978	50,061	19,065	14,405	16,591	1,547
1979	51,890	20,689	15,166	16,035	1,424
1980	69,486	32,120	17,132	20,234	1,952
1981	89,234	42,520	19,742	26,972	2,223
1982	83,889	39,252	18,810	25,827	2,051
1983	75,738	37,396	14,505	23,837	1,917
1984	84,983	44,472	14,962	25,549	2,104
1985	70,708	36,374	12,875	21,459	1,627
1986	38,241	18,272	7,862	12,107	755
1987	34,661	15,881	7,697	11,083	858
1988	31,526	13,290	8,254	9,982	926
1989	27,374	10,189	8,973	8,212	621
1990[R]	30,615	12,014	10,242	8,359	751
1991[R]	27,659	11,556	8,572	7,531	1,059
1992[P]	16,733	6,604	4,763	5,366	589

a. See detailed explanation at the beginning of this section.

b. Includes Oil, Gas and Dry, but not service.

c. Excludes stratigraphic and core tests. Based on "as reported" data. Not included in Total.

R–Revised. P–Preliminary.

Source: Oil and Gas Journal prior to 1968, American Petroleum Institute, *Quarterly Completion Report*, Fourth Quarter, 1992.

Note: All data from 1982-1990 reflect API estimates except service.

TABLE 3-21
NEW WELL COMPLETIONS, BY TYPE OF WELL AND STATE, 1992[a]

Division and State	Total[b]	Oil	Gas	Dry	Service
United States	**16,733**	**6,604**	**4,763**	**5,366**	**589**
New England	**0**	**0**	**0**	**0**	**0**
Middle Atlantic	**92**	**6**	**81**	**5**	**0**
New Jersey	0	0	0	0	0
New York	17	6	8	3	0
Pennsylvania	75	0	73	2	0
East North Central	**1,476**	**554**	**436**	**486**	**32**
Illinois	622	305	9	308	28
Indiana	98	42	5	51	4
Michigan	393	11	322	60	0
Ohio	362	196	100	66	0
Wisconsin	1	0	0	1	0
West North Central	**1,621**	**606**	**185**	**830**	**61**
Iowa	0	0	0	0	0
Kansas	1,409	500	181	728	59
Minnesota	0	0	0	0	0
Missouri	0	0	0	0	0
Nebraska	65	13	4	48	0
North Dakota	140	92	0	48	0
South Dakota	7	1	0	6	2
South Atlantic	**313**	**7**	**303**	**3**	**0**
Delaware	0	0	0	0	0
District of Columbia	0	0	0	0	0
Florida	1	0	0	1	0
Georgia	1	0	0	1	0
Maryland	0	0	0	0	0
North Carolina	0	0	0	0	0
South Carolina	0	0	0	0	0
Virginia	0	0	0	0	0
West Virginia	311	7	303	1	0
East South Central	**983**	**172**	**353**	**458**	**6**
Alabama	281	10	162	109	1
Kentucky	524	118	172	234	5
Mississippi	161	33	18	110	0
Tennessee	17	11	1	5	0
West South Central	**8,943**	**4,062**	**1,956**	**2,924**	**216**
Arkansas	225	25	102	98	0
Louisiana	1,010	347	201	462	1
Oklahoma	1,643	611	478	554	23
Texas	6,065	3,080	1,175	1,810	192
Mountain	**2,548**	**621**	**1,384**	**543**	**38**
Arizona	0	0	0	0	0
Colorado	1,021	66	777	178	7
Idaho	0	0	0	0	0
Montana	204	24	121	59	2
Nevada	21	7	0	14	0
New Mexico	637	352	200	85	27
Utah	224	48	131	45	0
Wyoming	441	124	155	162	2
Pacific	**722**	**564**	**58**	**100**	**235**
Alaska	112	89	6	17	4
California	606	475	50	81	231
Hawaii	0	0	0	0	0
Oregon	3	0	2	1	0
Washington	1	0	0	1	0
Federal Waters	**35**	**11**	**7**	**17**	**1**

a. Based on "as reported" data; therefore data understates actual levels of drilling activity. See detailed explanation at the beginning of this section.

b. Excludes service wells, stratigraphic and core tests.

Source: American Petroleum Institute, *Quarterly Completion Report.*

TABLE 3-22
HOLES DRILLED AND PROPORTION SUCCESSFUL, BY TYPE OF EXPLORATION HOLE
1975-1990

	Outposts-Extensions	New-Pool Wildcats	Deeper-Pool Tests	Shallower-Pool Tests	New-Field Wildcats	Total
1975						
Drilled	1,577	1,112	288	133	6,104	9,214
Dry	905	719	181	38	5,228	7,071
Productive	672	393	107	95	876	2,143
Percent Productive	42.6	35.3	37.2	71.4	14.4	23.3
1980						
Drilled	1,981	1,819	789	293	7,034	11,916
Dry	1,104	952	523	69	5,694	8,342
Productive	877	867	266	224	1,340	3,574
Percent Productive	44.3	47.7	33.7	76.4	19.1	30.0
1983						
Drilled	2,498	2,281	1,979	640	6,489	13,887
Dry	1,437	1,340	1,491	288	5,351	9,907
Productive	1,061	941	488	352	1,138	3,980
Percent Productive	42.5	41.3	24.7	55.0	17.5	28.7
1984						
Drilled	3,340	2,580	2,311	758	6,088	15,077
Dry	2,077	1,618	1,869	384	5,208	11,156
Productive	1,263	962	442	374	880	3,921
Percent Productive	37.8	37.3	19.1	49.3	14.5	26.0
1985						
Drilled	2,510	2,343	2,013	602	6,364	13,832
Dry	1,473	1,356	1,627	291	5,355	10,102
Productive	1,037	987	386	311	1,009	3,730
Percent Productive	41.3	42.1	19.2	51.7	15.9	27.0
1986						
Drilled	1,596	579	1,709	391	4,731	9,006
Dry	888	162	1,485	210	4,039	6,784
Productive	708	417	224	181	692	2,222
Percent Productive	44.4	72.0	13.1	46.3	14.6	24.7
1987						
Drilled	1,251	367	1,357	310	3,716	7,001
Dry	744	117	1,174	174	3,210	5,419
Productive	507	250	183	136	506	1,582
Percent Productive	40.5	68.1	13.5	43.9	13.6	22.6
1988						
Drilled	1,183	556	1,136	217	3,462	6,554
Dry	683	263	962	135	2,993	5,036
Productive	500	293	174	82	469	1,518
Percent Productive	42.3	52.7	15.3	37.8	13.6	23.2
1989						
Drilled	1,102	406	998	239	2,933	5,678
Dry	677	158	869	127	2,552	4,383
Productive	425	248	129	112	381	1,295
Percent Productive	38.6	61.1	12.9	46.9	13.0	22.8
1990						
Drilled	934	270	887	186	2,532	4,809
Dry	510	90	756	121	2,147	3,624
Productive	424	180	131	65	385	1,185
Percent Productive	45.4	66.7	14.8	34.9	15.2	24.6

Source: Committee on Statistics of Drilling, *American Association of Petroleum Geologists Bulletin*, 1975-1989; American Petroleum Institute for 1990 data.

TABLE 3-23
EXPLORATORY WELLS AND DRY HOLES DRILLED, BY STATE AND TYPE OF WELL, 1992[a]

Division and State	Total Drilled	Dry Holes	Producers Total	Producers Oil	Producers Gas
United States	**3,369**	**2,537**	**832**	**483**	**349**
New England	**0**	**0**	**0**	**0**	**0**
Middle Atlantic	**5**	**3**	**2**	**0**	**2**
New Jersey	0	0	0	0	0
New York	0	0	0	0	0
Pennsylvania	5	3	2	0	2
East North Central	**354**	**282**	**72**	**41**	**31**
Illinois	175	157	18	16	2
Indiana	41	30	11	7	4
Michigan	62	46	16	7	9
Ohio	75	48	27	11	16
Wisconsin	1	1	0	0	0
West North Central	**669**	**454**	**215**	**170**	**45**
Iowa	0	0	0	0	0
Kansas	505	350	155	114	41
Minnesota	0	0	0	0	0
Missouri	1	0	0	0	0
Nebraska	56	46	10	7	3
North Dakota	102	52	50	49	1
South Dakota	6	6	0	0	0
South Atlantic	**11**	**7**	**4**	**1**	**3**
Delaware	0	0	0	0	0
District of Columbia	0	0	0	0	0
Florida	5	5	0	0	0
Georgia	1	1	0	0	0
Maryland	0	0	0	0	0
North Carolina	0	0	0	0	0
South Carolina	0	0	0	0	0
Virginia	0	0	0	0	0
West Virginia	5	1	4	1	3
East South Central	**218**	**192**	**26**	**14**	**12**
Alabama	57	53	4	3	1
Kentucky	87	80	7	5	2
Mississippi	72	57	15	6	9
Tennessee	2	2	0	0	0
West South Central	**1,447**	**1,129**	**318**	**155**	**163**
Arkansas	29	27	2	0	2
Louisiana	139	128	11	4	7
Oklahoma	192	127	65	37	28
Texas	1,087	847	240	114	126
Mountain	**565**	**394**	**171**	**91**	**80**
Arizona	1	1	0	0	0
Colorado	205	166	39	21	18
Idaho	0	0	0	0	0
Montana	50	26	24	7	17
Nevada	17	16	1	1	0
New Mexico	93	37	56	38	18
Utah	30	20	10	6	4
Wyoming	169	128	41	18	23
Pacific	**85**	**64**	**21**	**9**	**12**
Alaska	13	10	3	3	0
California	71	53	18	6	12
Hawaii	0	0	0	0	0
Oregon	0	0	0	0	0
Washington	1	1	0	0	0
Federal Waters	**15**	**12**	**3**	**2**	**1**

[a] See detailed explanation at the beginning of this section.

Source: American Petroleum Institute, *Quarterly Completion Report*, Second Quarter 1993.

TABLE 3-24
DRILLING OPERATIONS AND EXPENDITURES, BY TYPE OF WELL, 1990-1991[a]

	Total	Oil	Gas[b]	Dry
1990				
Wells drilled	28,513	11,472	9,474	7,567
Footage drilled (000)	143,785	53,368	49,211	41,206
Expenditures (000)	$10,937,474	$3,691,688	$4,464,914	$2,780,871
Average depth per well (ft)	5,043	4,652	5,194	5,446
Average cost per well	$383,596	$321,800	$471,281	$367,500
Average cost per foot	$76.07	$69.17	$90.74	$67.48
1991				
Wells drilled	27,194	11,490	8,355	7,349
Footage drilled (000)	138,689	54,191	45,459	39,039
Expenditures (000)	$11,461,003	$3,986,424	$4,232,437	$3,242,141
Average depth per well (ft)	5,100	4,716	5,411	5,312
Average cost per well	$421,453	$346,947	$506,575	$441,168
Average cost per foot	$82.64	$73.60	$93.10	$83.05

a. Includes all charges for drilling and equipping wells up to and including the "Christmas" trees, but excludes exploration, development and production costs and expenditures for service wells.

b. Includes condensate wells.

Source: American Petroleum Institute, *Joint Association Survey on Drilling Costs*, December 1992.

TABLE 3-25
OFFSHORE DRILLING OPERATIONS AND EXPENDITURES, BY TYPE OF WELL, 1990-1991[a]

	Total	Oil	Gas[b]	Dry
1990				
Wells drilled	704	136	209	359
Footage drilled (000)	6,964	1,290	2,089	3,585
Expenditures (000)	$2,190,791	$399,457	$794,796	$996,537
Average depth per well (ft)	9,892	9,482	9,995	9,987
Average cost per well	$3,111,919	$2,937,185	$3,802,854	$2,775,870
Average cost per foot	$314.59	$309.76	$380.48	$277.95
1991				
Wells drilled	718	176	206	336
Footage drilled (000)	7,378	1,626	2,105	3,648
Expenditures (000)	$2,548,637	$473,853	$707,992	$1,366,793
Average depth per well (ft)	10,276	9,238	10,217	10,857
Average cost per well	$3,549,634	$2,692,348	$3,436,853	$4,067,835
Average cost per foot	$345.43	$291.44	$336.39	$374.67

a. Includes all charges for drilling and equipping wells up to and including the "Christmas" trees, but excludes exploration, development and production costs and expenditures for service wells.

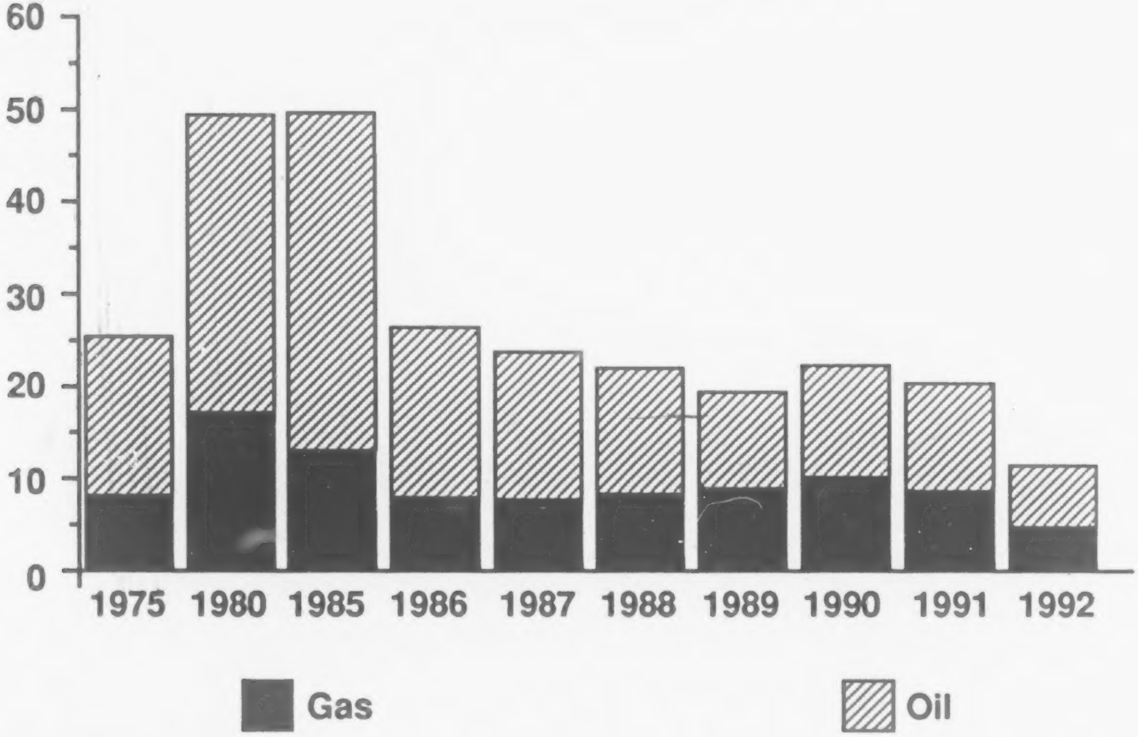
b. Includes condensate wells.

Source: American Petroleum Institute, *Joint Association Survey on Drilling Costs*, December 1992.

CHART 3-2

TOTAL GAS AND OIL NEW WELL COMPLETIONS

(THOUSANDS)



REFERENCE: TABLE 3-21

TABLE 3-26
AVERAGE COST PER FOOT BY TYPE OF WELL, BY DEPTH CLASSES, 1987-1991[a]

Depth Range (in feet)	Total	Oil	Gas	Dry
1987				
0- 1,249	$ 34.16	$ 40.10	$ 32.64	$ 19.05
1,250- 2,499	35.60	41.22	40.76	21.01
2,500- 3,749	33.93	36.65	42.86	22.64
3,750- 4,999	30.68	34.90	35.39	22.87
5,000- 7,499	38.06	45.15	39.05	29.02
7,500- 9,999	59.83	66.93	64.63	42.83
10,000-12,499	95.09	116.55	97.03	74.14
12,500-14,999	137.43	155.39	139.25	125.24
15,000-17,499	183.23	175.43	196.91	172.48
17,500-19,999	239.08	108.70	230.19	255.61
20,000 and over	581.66	—	425.86	680.53
1988				
0- 1,249	$ 36.44	$ 46.26	$ 33.41	$ 18.00
1,250- 2,499	40.07	45.11	47.74	22.40
2,500- 3,749	39.34	40.97	52.00	23.57
3,750- 4,999	32.68	36.49	37.79	24.33
5,000- 7,499	40.60	46.53	43.28	31.98
7,500- 9,999	65.64	67.35	72.03	57.96
10,000-12,499	108.96	113.43	119.09	98.05
12,500-14,999	152.97	149.77	170.42	140.24
15,000-17,499	227.20	204.85	245.84	217.97
17,500-19,999	268.91	269.96	293.34	250.93
20,000 and over	454.54	198.09	552.09	422.40
1989				
0- 1,249	$ 41.39	$ 51.30	$ 49.57	$ 17.56
1,250- 2,499	42.58	47.62	51.58	20.27
2,500- 3,749	40.54	40.53	52.72	23.65
3,750- 4,999	34.60	36.83	46.71	21.95
5,000- 7,499	42.34	46.82	48.01	31.69
7,500- 9,999	72.94	67.38	88.67	59.71
10,000-12,499	117.81	124.35	118.51	112.03
12,500-14,999	148.30	150.39	163.85	131.45
15,000-17,499	234.19	302.25	244.52	213.13
17,500-19,999	300.57	320.30	368.24	241.41
20,000 and over	629.21	—	580.96	659.60
1990				
0- 1,249	$ 49.39	$ 54.90	$ 47.38	$ 37.09
1,250- 2,499	46.77	46.58	56.14	27.31
2,500- 3,749	48.97	45.18	68.19	24.04
3,750- 4,999	39.94	42.52	54.60	25.15
5,000- 7,499	47.90	53.94	35.83	35.83
7,500- 9,999	76.87	74.59	90.40	62.82
10,000-12,499	109.09	106.26	123.99	94.81
12,500-14,999	147.27	136.65	161.18	141.43
15,000-17,499	226.19	202.39	268.23	198.65
17,500-19,999	283.90	279.54	270.98	293.29
20,000 and over	553.72	—	743.73	396.38
1991				
0- 1,249	$ 46.68	$ 53.67	$ 55.43	$ 23.83
1,250- 2,499	45.46	48.09	57.16	24.13
2,500- 3,749	53.84	51.23	74.76	23.55
3,750- 4,999	40.38	44.89	54.34	23.68
5,000- 7,499	47.53	54.97	49.32	35.79
7,500- 9,999	77.87	72.22	84.32	80.62
10,000-12,499	116.74	111.91	125.39	114.06
12,500-14,999	168.72	135.58	179.28	189.18
15,000-17,499	255.33	231.05	267.61	253.81
17,500-19,999	297.98	355.43	304.36	288.94
20,000 and over	529.55	237.42	667.01	484.52

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[a] Includes all charges for drilling and equipping wells up to and including the "Christmas" trees but excludes exploration, development and production costs and expenditures for service wells.

Source: American Petroleum Institute, *Joint Association Survey on Drilling Costs*, December 1991.

TABLE 3-27
SELECT WORLD NATURAL GAS STATISTICS
1991

Country	Production	Imports	Exports	Gross Consumption	Residential Consumers (000)	Miles of Pipeline (000)
	(Trillions of Btu)					
Austria	50.3	194.0	—	244.2	970[d]	7.8[d]
Belgium	0.4	382.0	17.9	367.3	1,981[b]	23.0
Canada	4,186.4	11.4	1,710.3	2,503.5	3,336[b]	136.1[c]
Czechoslovakia	18.7	456.4	0.6	459.3	2,632[c]	21.1[b]
Denmark	152.4	—	55.2	89.7	357[f]	8.4
Finland	—	105.4	—	105.4	92[c]	1.0
France	117.1	1,154.5	20.0	1,237.0	8,769[b]	94.5
Germany	596.8	1,956.4	41.5	2,545.8	13,369[b]	156.9[a]
Greece	6.1	—	—	6.1	6[b]	0.3[b]
Hungary	152.8	197.3	0.3	350.8	1,559[b]	12.3[a]
Ireland	84.7	—	—	84.7	147[c]	2.3
Italy	622.3	1,214.8	0.9	1,828.7	11,200[b]	98.5
Luxembourg	—	19.7	—	19.7	59[e]	0.6
Netherlands	2,723.0	77.2	1,280.6	1,519.5	5,241[d]	63.1[a]
Norway	1,047.6	—	969.3	78.2	2[g]	1.0
Poland	116.1	232.1	.02	346.7	5,475[b]	41.8
Russian Federation	20,221.0	689.6	6,154.8	15,027.6	68,349[c]	268.9[c]
Spain	52.5	193.9	—	247.0	1,722[c]	8.1[c]
Switzerland	0.4	89.6	—	90.0	482[c]	6.7[c]
United Kingdom	2,009.1	245.8	—	2,244.7	16,500[d]	155.2[a]
United States	18,357.9	1,795.1	131.6	20,276.1	47,710[d]	1,117.5[a]
Yugoslavia	—	—	—	—	418[b]	4.6[a]

a. 1990 data.
b. 1989 data.
c. 1988 data.
d. 1987 data.
e. 1986 data.
f. 1984 data.
g. 1983 data.

Source: United Nations, *Annual Bulletin of Gas Statistics for Europe*, 1991.

TABLE 3-28
CANADIAN GAS EXPORTS AND EXPORT PRICES TO THE UNITED STATES[a]
1985-1992

	Long-Term		Short-Term		Total	
Year	Volume	Price	Volume	Price	Volume	Price
1985	907.2	3.13	16.1	2.65	923.3	3.12
1986	538.5	2.51	201.7	2.18	740.1	2.42
1987	782.8	1.98	206.9	1.69	989.7	1.92
1988	870.5	2.04	397.8	1.60	1,268.3	1.90
1989	821.6	2.12	515.2	1.59	1,336.8	1.92
1990	924.9	2.06	512.5	1.81	1,437.4	1.97
1991	892.0	2.06	787.2	1.64	1,679.2	1.86
1992	1,125.7	2.10	918.1	1.67	2,043.8	1.90

a. Volumes in billions of cubic feet and prices in US$/MMBtu.
Source: National Energy Board.

TABLE 3-29
WORLD WELL COMPLETIONS
1992[a]

Area	Oil	Gas	Dry	Service	Suspended	Total Wells[b]	Total Footage
North America	10,981	8,887	7,875	867	135	28,745[c]	144,436,169
South America	1,462	62	274	55	137	1,990	12,477,671
Far East	7,323	235	250	2,105	160	11,149	61,530,591
Western Europe	256	189	170	100	116	831	7,534,692
Middle East	256	23	63	46	5	1,033	7,096,678
Africa	408	36	99	44	22	609	5,670,955
Oceania	61	41	94	4	7	207	1,465,770
Eastern Europe	9,965	786	860	75	13	11,699	84,797,571
World Total	30,712	10,259	9,685	3,296	595	56,263	325,010,097

a. No drilling data available for North Korea, the former Soviet Union, Albania, and Syria.
b. 1992 wells drilled totals and subtotals may not add horizontally due to lack of breakdown in some countries.
c. Includes actual United States well count by American Petroleum Institute (API). Number will increase as additional well completions are reported to API.
Source: *World Oil,* August 1993.

WORLD WELL COMPLETIONS
1991[a]

Area	Oil	Gas	Dry	Service	Suspended	Total Wells[b]	Total Footage
North America	13,115	93,738	8,695	1,152	23	32,358[c]	156,905,874
South America	1,869	41	291	30	57	2,288	13,810,876
Far East	6,942	253	311	1,922	176	11,111	60,680,941
Western Europe	307	213	262	89	151	1,022	9,332,566
Middle East	603	26	80	99	35	939	5,921,698
Africa	377	44	155	20	38	634	6,193,890
Oceania	78	46	115	2	8	249	1,685,279
Eastern Europe	334	128	170	102	19	18,892	143,017,148
World Total	23,625	10,124	10,079	3,416	507	67,493	397,548,272

a. No drilling data available for North Korea, the former Soviet Union, Albania, and Syria.
b. 1991 wells drilled totals and subtotals may not add horizontally due to lack of breakdown in some countries.
c. Includes actual United States well count by American Petroleum Institute (API). Number will increase as additional well completions are reported to API.
Source: *World Oil,* August 1992.

WORLD WELL COMPLETIONS
1990[a]

Area	Oil	Gas	Dry	Service	Suspended	Total Wells[b]	Total Footage
North America	12,456	11,024	8,965	757	21	33,223[c]	159,823,373
South America	1,680	78	301	35	36	2,130	13,120,103
Far East	5,895	155	100	1,902	27	10,248	58,289,925
Western Europe	316	184	230	86	61	877	7,776,199
Middle East	610	25	113	54	44	959	6,196,382
Africa	247	36	108	43	32	564	4,707,810
Oceania	90	54	134	3	5	286	2,138,808
World Total	21,294	11,556	9,951	2,880	226	48,287	252,052,600

a. No drilling data available for Eastern Europe, the former Soviet Union, and North Korea.
b. 1990 wells drilled totals and subtotals may not add horizontally due to lack of breakdown in some areas.
c. Includes actual United States well count by American Petroleum Institute (API). Number will increase as additional well completions are reported to API.
Source: *World Oil,* August 1991.

TABLE 3-30
NUMBER OF U.S. NATURAL GAS VEHICLE REFUELING STATIONS BY STATE AND OWNERSHIP CATEGORY AS OF MAY 1993

Division and State	Total Operational Stations	Publicly Owned	Privately Owned	Utility Owned
United States	**701**	**67**	**140**	**494**
New England	**18**	**0**	**1**	**17**
Connecticut	4	0	0	4
Maine	0	0	0	0
Massachusetts	10	0	1	9
New Hampshire	1	0	0	1
Rhode Island	2	0	0	2
Vermont	1	0	0	1
Middle Atlantic	**69**	**2**	**6**	**61**
New Jersey	7	0	0	7
New York	25	2	1	22
Pennsylvania	37	0	5	32
East North Central	**118**	**8**	**27**	**83**
Illinois	18	0	6	12
Indiana	27	0	3	24
Michigan	13	0	5	8
Ohio	32	4	7	21
Wisconsin	28	4	6	18
West North Central	**47**	**2**	**12**	**33**
Iowa	3	0	0	3
Kansas	10	0	2	8
Minnesota	10	1	5	4
Missouri	6	1	3	2
Nebraska	10	0	1	9
North Dakota	4	0	0	4
South Dakota	4	0	1	3
South Atlantic	**120**	**12**	**26**	**82**
Delaware	2	0	0	2
District of Columbia	3	0	0	3
Florida	34	3	7	24
Georgia	29	5	2	22
Maryland	12	0	0	12
North Carolina	3	1	1	1
South Carolina	0	0	0	0
Virginia	13	2	2	9
West Virginia	24	1	14	9
East South Central	**23**	**1**	**2**	**20**
Alabama	11	1	1	9
Kentucky	7	0	0	7
Mississippi	0	0	0	0
Tennessee	5	0	1	4
West South Central	**112**	**20**	**26**	**66**
Arkansas	8	2	1	5
Louisiana	9	0	2	7
Oklahoma	32	6	5	21
Texas	63	12	18	33
Mountain	**86**	**12**	**23**	**51**
Arizona	12	7	2	3
Colorado	40	4	17	19
Idaho	0	0	0	0
Montana	7	0	0	7
Nevada	3	1	0	2
New Mexico	10	0	1	9
Utah	9	0	2	7
Wyoming	5	0	1	4
Pacific	**108**	**10**	**17**	**81**
Alaska	0	0	0	0
California	80	5	13	62
Hawaii	0	0	0	0
Oregon	4	0	0	4
Washington	24	5	4	15

Source: *A.G.A Directory of Natural Gas Vehicle Refueling Stations, Products and Services*, 1993 edition.

SECTION 4
UNDERGROUND GAS STORAGE

	1992	% Change 92/91
Number of Pools	386	− 2.3
Est. Ultimate Capacity (Millions of cubic feet)	7,582,202	− 3.2
Base Gas in Storage (Millions of cubic feet)	3,961,633	+ 4.6
Working Gas in Storage (Millions of cubic feet)	2,407,136	− 11.1
Maximum Day Output (Millions of cubic feet)	51,966	+ 12.7

Note: The American Gas Association began a new technique of conducting the survey of underground gas storage facilities in order to obtain the 1992 data. This technique involved providing a computer diskette to each respondent that contained the previous data on each of their storage fields. The diskette also included an executable program to permit access to each field and data point in order to update all information. 96 companies received survey diskettes and 70 responded. This represented 85.4% of the active storage fields in the survey and 92.3% of the estimated gas stored at year end. In order to maintain the relative proportions of the summary data contained in this report, we included the prior data from the companies not reporting 1992 data. Several companies that did not report data did indicate that their numbers were very nearly the same but due to manpower limitations were unable to complete the survey in time for this report. The new survey discontinued some data series. Changes are reflected in the new tables contained in this section.

TABLE 4-1
NUMBER OF UNDERGROUND STORAGE POOLS AND ULTIMATE CAPACITY IN THE UNITED STATES, 1972-1992

Year	Number of Pools	Number of States	Est. Ultimate Capacity (Billions of Cubic Feet)
1972	348	26	6,040
1973	360	26	6,279
1974	367	26	6,360
1975	376	26	6,644
1976	386	26	6,927
1977	385	26	7,223
1978	388	26	7,330
1979	399	26	7,437
1980	401	26	7,488
1981	393	26	7,581
1982	404	26	7,727
1983	419	26	7,755
1984	412	26	7,783
1985	400	26	7,731
1986	396	26	7,792
1987	391	26	7,807
1988	393	27	7,797
1989	395	27	7,737
1990	397	27	7,794
1991	395	27	7,836
1992	386	25	7,582

Source: A.G.A. *The Underground Storage of Gas in the United States and Canada*—1992 Update.

TABLE 4-2
NUMBER OF AQUIFER POOLS AND ULTIMATE CAPACITY IN THE UNITED STATES, 1972-1992[a]

Year	Number of Pools	Number of Sales	Est. Ultimate Capacity (Billions of Cubic Feet)
1972	46	9	1,278
1973	49	10	1,399
1974	51	10	1,408
1975	52	10	1,459
1976	52	10	1,484
1977	52	10	1,578
1978	53	10	1,593
1979	56	10	1,601
1980	57	10	1,449
1981	57	10	1,423
1982	56	10	1,432
1983	56	10	1,421
1984	54	10	1,472
1985	52	10	1,401
1986	51	10	1,404
1987	48	10	1,386
1988	47	10	1,397
1989	50	10	1,428
1990	50	10	1,507
1991	49	10	1,446
1992	32	4	1,161

a. These data are included in Table 4-1.
Source: Same as Table 4-1.

TABLE 4-3
COMPARATIVE U.S. UNDERGROUND NATURAL GAS STORAGE STATISTICS

1988–1992

	1988	1989	1990	1991	1992
Number of Pools	393	395	397	395	396
Total Number of Wells	17,232	18,026	18,163	16,817	17,999
Input and/or Output	13,907	14,534	14,627	13,636	14,842
Pressure Control and/or Observation	3,325	3,494	3,536	3,181	3,171
Total Horsepower of Compressors	1,458,639	1,462,971	1,496,941	1,511,149	1,920,441
Maximum Volume of Stored Gas[a]	5,739,413	5,791,300	5,955,035	5,977,510	5,493,324
Total Volume in Storage Reservoirs 12/31	6,394,772	6,032,652	6,575,384	6,497,082	6,368,444
Volume of Native Gas	1,134,990	1,134,031	1,148,713	1,149,799	1,119,609
Volume of Stored Gas	5,259,782	4,897,621	5,426,671	5,347,283	5,248,835
Total Base Gas	3,561,231	3,565,667	3,648,775	3,788,228	3,961,633
Total Working Gas	2,833,541	2,466,985	2,926,609	2,708,853	2,407,136
Maximum Day Output From Storage	36,656	46,503	44,404	59,527	51,966
Total Reservoir Capacity	7,796,605	7,737,198	7,793,982	7,836,428	7,582,202

a. Excludes all native gas.

TABLE 4-4
COMPARATIVE CANADIAN UNDERGROUND NATURAL GAS STORAGE STATISTICS

1988–1992

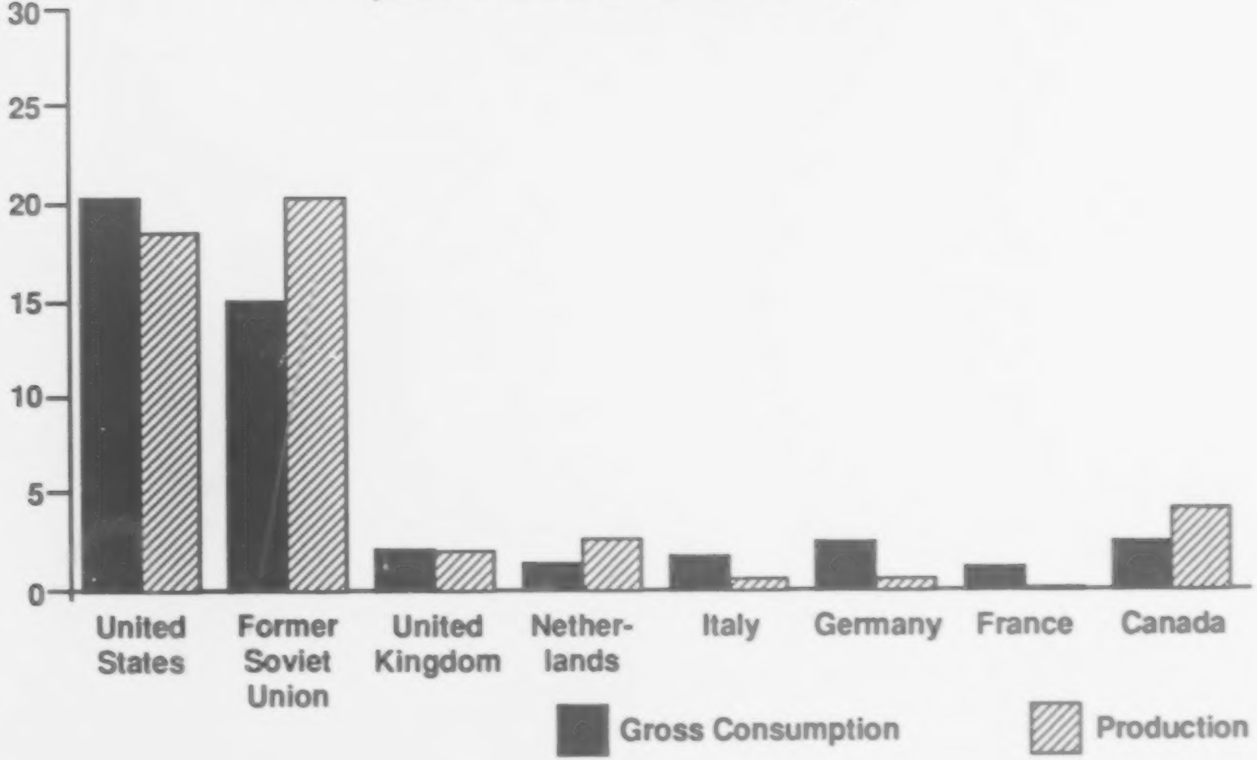
	1988	1989	1990	1991	1992
Number of Pools	27	28	32	32	36
Total Number of Wells	342	357	413	436	440
Input and/or Output	271	282	321	335	338
Pressure Control and/or Observation	71	75	92	101	102
Total Horsepower of Compressors	143,226	172,396	227,323	238,910	211,115
Maximum Volume of Stored Gas[a]	293,764	301,019	323,888	317,461	336,024
Total Volume in Storage Reservoirs 12/31	378,355	373,612	455,584	405,299	467,432
Volume of Native Gas	141,682	161,049	185,141	159,246	176,447
Volume of Stored Gas	236,673	212,563	270,444	246,053	290,985
Total Base Gas	192,954	211,047	236,329	205,131	213,558
Total Working Gas	185,401	162,565	219,258	200,168	253,844
Maximum Day Output From Storage	3,324	3,632	1,940	3,637	6,051
Total Reservoir Capacity	477,069	503,773	579,001	531,422	684,338

a. Excludes all native gas.

CHART 3-3

NATURAL GAS PRODUCTION AND GROSS CONSUMPTION, 1991

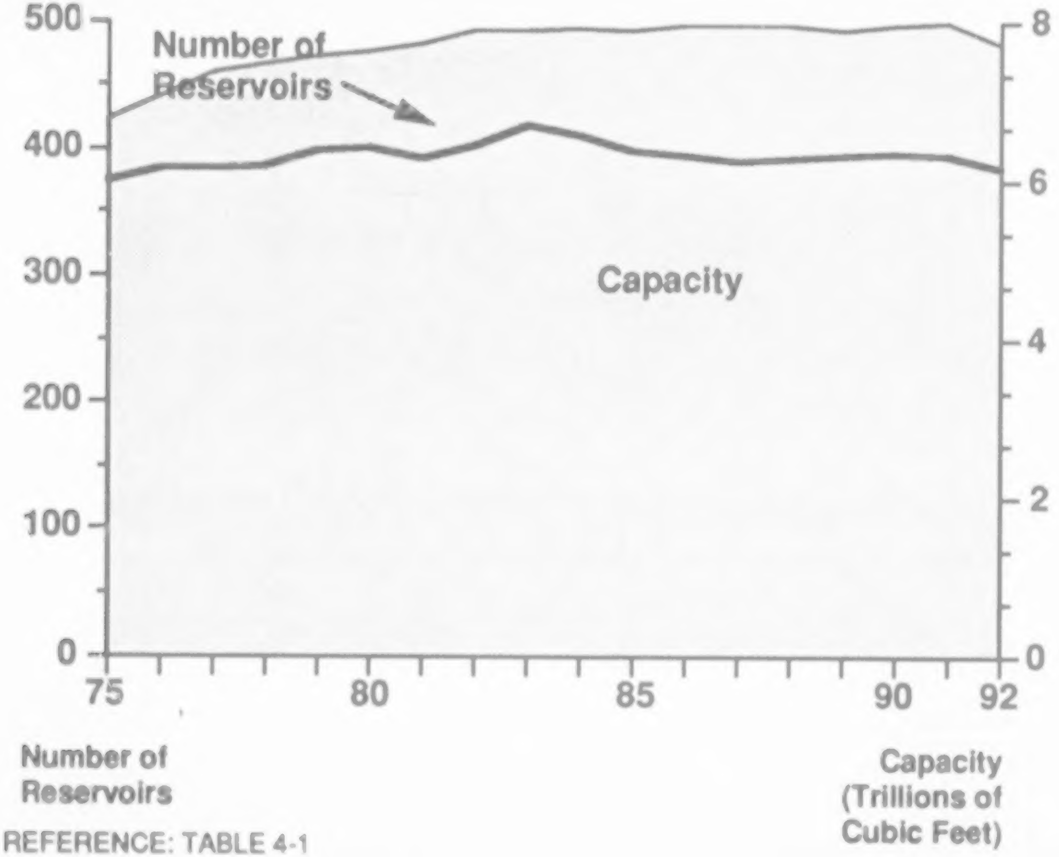
(QUADRILLIONS OF BTU)



REFERENCE: TABLE 3-27

CHART 4-1

NUMBER AND CAPACITY OF EXISTING UNDERGROUND STORAGE RESERVOIRS



REFERENCE: TABLE 4-1

TABLE 4-5
AMOUNT OF POOLS, WELLS, STORED GAS, AND HORSEPOWER IN UNDERGROUND STORAGE FIELDS, BY STATE, 1990–1992

		Number of Pools			Number of Active Wells		
	Division and State	1990	1991	1992	1990	1991	1992
(1)	**United States**	**397**	**395**	**386**	**17,235**	**16,817**	**17,999**
(2)	**New England**	**0**	**0**	**0**	**0**	**0**	**0**
(3)	**Middle Atlantic**	**84**	**79**	**81**	**2,161**	**2,289**	**2,964**
(4)	New Jersey	0	0	0	0	0	0
(5)	New York	21	21	20	90	964	853
(6)	Pennsylvania	63	58	61	2,074	2,071	2,111
(7)	**East North Central**	**132**	**133**	**129**	**8,798**	**8,847**	**8,789**
(8)	Illinois	34	33	30	1,695	1,703	1,678
(9)	Indiana	28	28	28	916	916	936
(10)	Michigan	48	50	50	2,945	2,971	2,924
(11)	Ohio	22	22	21	3,242	3,257	3,251
(12)	Wisconsin	0	0	0	0	0	0
(13)	**West North Central**	**28**	**27**	**29**	**1,382**	**1,390**	**1,481**
(14)	Iowa	8	8	8	435	435	428
(15)	Kansas	16	15	18	733	733	907
(16)	Minnesota	1	1	1	63	63	66
(17)	Missouri	1	1	0	82	82	0
(18)	Nebraska	2	2	2	69	77	80
(19)	North Dakota	0	0	0	0	0	0
(20)	South Dakota	0	0	0	0	0	0
(21)	**South Atlantic**	**38**	**38**	**35**	**1,658**	**1,661**	**1,546**
(22)	Delaware	0	0	0	0	0	0
(23)	District of Columbia	0	0	0	0	0	0
(24)	Florida	0	0	0	0	0	0
(25)	Georgia	0	0	0	0	0	0
(26)	Maryland	1	1	1	82	82	82
(27)	North Carolina	0	0	0	0	0	0
(28)	South Carolina	0	0	0	0	0	0
(29)	Virginia	0	0	0	0	0	0
(30)	West Virginia	37	37	34	1,576	1,579	1,464
(31)	**East South Central**	**25**	**27**	**25**	**1,054**	**1,088**	**1,113**
(32)	Alabama	0	0	0	0	0	0
(33)	Kentucky	20	20	21	957	986	1,012
(34)	Mississippi	5	7	4	97	102	101
(35)	Tennessee	0	0	0	0	0	0
(36)	**West South Central**	**47**	**48**	**49**	**953**	**978**	**1,010**
(37)	Arkansas	4	4	6	11	11	26
(38)	Louisiana	9	9	8	305	324	363
(39)	Oklahoma	12	12	13	306	303	309
(40)	Texas	22	23	22	331	340	312
(41)	**Mountain**	**30**	**30**	**27**	**576**	**583**	**602**
(42)	Arizona	0	0	0	0	0	0
(43)	Colorado	12	12	9	238	243	221
(44)	Idaho	0	0	0	0	0	0
(45)	Montana	5	5	5	240	242	246
(46)	Nevada	0	0	0	0	0	0
(47)	New Mexico	3	3	3	43	43	38
(48)	Utah	2	2	3	19	19	61
(49)	Wyoming	8	8	7	36	36	36
(50)	**Pacific**	**13**	**13**	**11**	**513**	**527**	**494**
(51)	Alaska	0	0	0	0	0	0
(52)	California	9	9	9	418	430	417
(53)	Hawaii	0	0	0	0	0	0
(54)	Oregon	2	2	0	18	20	0
(55)	Washington	2	2	2	77	77	77

Source: Same as Table 4-1.

TABLE 4-5 (Continued)
AMOUNT OF POOLS, WELLS, STORED GAS, AND HORSEPOWER IN UNDERGROUND STORAGE FIELDS, BY STATE, 1990–1992

Stored Gas (Millions of Cubic Feet)			Total HP Installed in Compressor Stations			
1990	1991	1992	1990	1991	1992	
5,426,668	**5,299,189**	**5,248,835**	**1,496,941**	**1,511,149**	**1,920,441**	(1)
0	**0**	**0**	**0**	**0**	**0**	(2)
738,460	**752,956**	**784,129**	**85,113**	**84,865**	**297,850**	(3)
0	0	0	0	0	0	(4)
141,174	147,244	143,370	30,930	30,930	55,030	(5)
597,286	605,712	640,759	54,183	53,935	242,820	(6)
1,976,024	**1,918,625**	**1,852,008**	**661,370**	**664,220**	**737,729**	(7)
851,820	841,533	824,459	197,960	199,960	206,605	(8)
85,238	84,349	88,218	19,314	19,314	19,644	(9)
609,921	569,830	559,174	336,510	337,360	390,490	(10)
429,045	422,913	380,157	107,586	107,586	140,990	(11)
0	0	0	0	0	0	(12)
478,142	**437,024**	**500,592**	**96,990**	**97,510**	**131,800**	(13)
247,090	231,754	237,434	37,040	37,040	24,960	(14)
137,822	141,161	198,492	33,210	33,210	89,030	(15)
6,483	6,483	6,700	3,000	3,000	2,400	(16)
29,286	0	0	8,850	8,850	0	(17)
57,461	57,626	57,966	14,890	15,410	15,410	(18)
0	0	0	0	0	0	(19)
0	0	0	0	0	0	(20)
470,777	**449,502**	**427,850**	**62,920**	**62,920**	**85,710**	(21)
0	0	0	0	0	0	(22)
0	0	0	0	0	0	(23)
0	0	0	0	0	0	(24)
0	0	0	0	0	0	(25)
26,082	28,700	27,319	11,000	11,000	11,000	(26)
0	0	0	0	0	0	(27)
0	0	0	0	0	0	(28)
0	0	0	0	0	0	(29)
444,695	420,802	400,531	51,920	51,920	74,710	(30)
180,295	**173,888**	**182,471**	**60,990**	**61,990**	**88,150**	(31)
0	0	0	0	0	0	(32)
109,534	109,355	118,466	36,290	37,290	54,900	(33)
70,761	64,533	64,005	24,700	24,700	33,250	(34)
0	0	0	0	0	0	(35)
932,748	**901,820**	**868,544**	**310,187**	**289,187**	**327,583**	(36)
11,130	9,066	17,893	2,500	2,500	9,265	(37)
389,200	371,698	368,360	119,860	98,860	129,100	(38)
292,261	278,968	271,335	78,570	78,570	78,960	(39)
240,157	242,088	210,956	109,257	109,257	110,258	(40)
370,519	**370,669**	**365,169**	**84,691**	**85,997**	**100,039**	(41)
0	0	0	0	0	0	(42)
65,410	73,344	52,378	35,253	35,253	36,956	(43)
0	0	0	0	0	0	(44)
199,778	190,041	177,437	24,225	24,225	22,989	(45)
0	0	0	0	0	0	(46)
36,047	37,371	24,120	13,180	13,180	13,180	(47)
3,707	3,908	55,310	1,350	1,900	14,900	(48)
65,577	66,005	55,924	10,683	11,439	12,014	(49)
279,703	**294,705**	**268,072**	**134,680**	**164,460**	**131,580**	(50)
0	0	0	0	0	0	(51)
241,246	261,211	234,172	118,580	148,360	119,080	(52)
0	0	0	0	0	0	(53)
8,190	0	0	3,600	3,600	0	(54)
30,267	33,494	33,900	12,500	12,500	12,500	(55)

TABLE 4-6
ULTIMATE CAPACITY OF EXISTING RESERVOIRS, BY STATE, 1992

(Millions of Cubic Feet)

Division and State	Cushion Gas			Working Gas	Ultimate Reservoir Capacity[a]
	Native	Injected	Total		
United States	**1,119,609**	**2,842,024**	**3,961,633**	**2,407,136**	**7,582,202**
New England	**0**	**0**	**0**	**0**	**0**
Middle Atlantic	**38,916**	**411,136**	**450,052**	**373,318**	**955,706**
New Jersey	0	0	0	0	0
New York	8,329	86,802	95,131	56,568	170,998
Pennsylvania	30,587	324,334	354,921	316,750	784,708
East North Central	**357,334**	**1,045,631**	**1,402,965**	**806,377**	**2,677,151**
Illinois	11,307	554,042	565,349	270,417	967,014
Indiana	18,520	57,041	75,561	31,177	109,997
Michigan	245,411	167,124	412,535	392,050	1,012,143
Ohio	82,096	267,424	349,520	112,733	587,997
Wisconsin	0	0	0	0	0
West North Central	**84,354**	**325,703**	**410,057**	**174,889**	**669,851**
Iowa	0	170,920	170,920	66,514	273,290
Kansas	60,562	146,663	207,225	51,829	296,549
Minnesota	0	4,600	4,600	2,100	6,700
Missouri	0	0	0	0	0
Nebraska	23,792	3,520	27,312	54,446	93,312
North Dakota	0	0	0	0	0
South Dakota	0	0	0	0	0
South Atlantic	**64,330**	**262,543**	**326,873**	**165,307**	**552,693**
Delaware	0	0	0	0	0
District of Columbia	0	0	0	0	0
Florida	0	0	0	0	0
Georgia	0	0	0	0	0
Maryland	32,456	14,221	46,677	13,098	62,000
North Carolina	0	0	0	0	0
South Carolina	0	0	0	0	0
Virginia	0	0	0	0	0
West Virginia	31,874	248,322	280,196	152,209	490,693
East South Central	**108,286**	**41,988**	**150,274**	**140,483**	**312,340**
Alabama	0	0	0	0	0
Kentucky	80,963	24,309	105,272	94,157	208,470
Mississippi	27,323	17,679	45,002	46,326	103,870
Tennessee	0	0	0	0	0
West South Central	**139,181**	**470,042**	**609,223**	**398,502**	**1,192,706**
Arkansas	10,580	14,210	24,790	3,683	37,052
Lousiana	72,010	185,689	257,699	182,671	489,905
Oklahoma	31,028	173,847	204,875	97,488	368,459
Texas	25,563	96,296	121,859	114,660	297,290
Mountain	**173,627**	**171,056**	**344,683**	**194,113**	**716,703**
Arizona	0	0	0	0	0
Colorado	32,123	20,660	52,783	31,718	98,731
Idaho	0	0	0	0	0
Montana	94,370	75,519	169,889	101,918	373,960
Nevada	0	0	0	0	0
New Mexico	10,600	4,400	15,000	19,720	34,720
Utah	9,186	38,443	47,629	16,867	105,181
Wyoming	27,348	32,034	59,382	23,890	104,111
Pacific	**153,581**	**113,925**	**267,506**	**154,147**	**505,052**
Alaska	0	0	0	0	0
California	153.581	95,125	248,706	139,047	465,552
Hawaii	0	0	0	0	0
Oregon	0	0	0	0	0
Washington	0	18,800	18,800	15,100	39,500

a. In some states or regions, the difference between the sum of the components and Ultimate Reservoir Capacity represents presently unused capacity.

Source: Same as Table 4-1.

SECTION 5
DISTRIBUTION AND TRANSMISSION

	1992	% Change 92/91
Miles of Pipeline		
(Thousands)		
Total	1,253.9	+ 2.3
Field & Gathering	86.2	− 0.1
Transmission	284.5	+ 1.0
Distribution	883.2	+ 3.0
Miles Installed		
(Thousands)	26.1	+ 4.0

DISTRIBUTION AND TRANSMISSION

TABLE 5-1
GAS UTILITY INDUSTRY MILES OF PIPELINE AND MAIN, BY TYPE, 1968-1992[a]

(Thousands)

Year	Total	Field and Gathering	Transmission Pipeline[b]	Distribution Main
1968	861.6	64.4	234.5	562.7
1969	891.6	64.9	248.1	578.6
1970	913.3	66.3	252.2	594.8
1971	931.4	66.2	254.8	610.4
1972	948.1	66.9	258.1	623.1
1973	962.9	65.9	263.1	633.8
1974	974.1	66.4	262.2	645.6
1975	979.3	68.5	262.6	648.2
1976	987.7	70.3	258.2	659.1
1977	998.9	71.5	260.5	666.9
1978	1,013.0	74.9	260.6	677.5
1979	1,029.8	77.8	263.5	688.5
1980	1,051.8	83.5	266.5	701.8
1981	1,069.8	86.2	269.5	714.1
1982	1,083.4	90.5	271.7	721.2
1983	1,095.1	91.9	273.5	729.7
1984	1,102.4	93.7	271.9	736.8
1985	1,118.9	94.3	271.2	753.4
1986	1,134.1	93.8	271.0	769.3
1987	1,151.2	93.6	273.8	783.8
1988	1,169.0	92.3	275.4	801.3
1989	1,185.0	90.6	276.3	818.4
1990	1,206.9	89.5	280.1	837.3
1991[R]	1,225.4	86.3	281.6	857.5
1992	1253.9	86.2	284.5	883.2
Steel	952.5	85.1	280.3	587.2
Plastic[c]	249.5	1.0	4.1	244.3
Other	51.9	0.1	0.1	51.8

a. Excludes service pipe. Data not adjusted to common diameter equivalent. Mileage shown as of end of each year.

b. Includes 5.0 thousand miles of Underground Storage pipe in 1975, 5.3 thousand miles in 1976, 5.2 thousand miles in 1977, 6.0 thousand miles in 1978, 5.7 thousand miles in 1979, 6.2 thousand miles in 1980, 7.8 thousand miles in 1981, 5.5 thousand miles in 1982, 5.9 thousand miles in 1983 and 1984, 6.0 thousand miles in 1985, 1986, 1987, and 1988, 6.2 thousand miles in 1989, 1990 and 1991,6.0 thousand miles in 1992 some of which was formerly included in Field and Gathering pipe.

c. Includes fiberglass.

R–Revised.

TABLE 5-2
GAS UTILITY INDUSTRY MILES OF PIPELINE AND MAIN, BY STATE, 1975-1992[a]

Division and State	1975	1980	1985	1989	1990	1991R	1992
United States	**979,263**	**1,051,774**	**1,118,875**	**1,185,325**	**1,206,894**	**1,225,358**	**1,253,924**
New England	**26,580**	**27,794**	**28,476**	**30,426**	**30,565**	**31,102**	**32,384**
Connecticut	5,991	6,710	6,550	6,911	6,983	7,010	32,384
Maine	461	395	411	443	447	453	19,864
Massachusetts	16,452	16,719	17,359	18,340	18,512	18,732	7,023
New Hampshire	1,093	1,163	1,283	1,615	1,465	1,508	1,598
Rhode Island	2,248	2,403	2,463	2,639	2,664	2,898	2,923
Vermont	335	404	410	478	494	501	510
Middle Atlantic	**113,993**	**116,439**	**121,682**	**126,891**	**128,447**	**130,271**	**130,933**
New Jersey	22,077	22,838	24,598	27,234	27,818	28,240	28,578
New York	40,535	41,394	42,334	44,090	44,549	45,043	45,746
Pennsylvania	51,381	52,207	54,750	55,567	56,080	56,988	56,609
East North Central	**190,172**	**200,361**	**206,889**	**217,991**	**221,547**	**224,946**	**228,764**
Illinois	50,252	53,375	54,541	56,725	57,296	57,950	58,630
Indiana	27,267	28,227	30,608	33,426	34,141	34,697	35,333
Michigan	40,203	44,100	44,694	46,681	47,583	48,614	49,474
Ohio	51,505	52,667	54,110	56,399	57,239	57,653	58,194
Wisconsin	20,945	21,992	22,936	24,760	25,288	26,032	27,133
West North Central	**106,134**	**112,901**	**115,855**	**122,028**	**125,581**	**127,503**	**130,149**
Iowa	17,273	17,892	18,254	18,684	19,023	19,864	20,308
Kansas	34,280	36,893	37,093	38,550	40,692	40,943	41,162
Minnesota	15,264	16,720	18,259	20,554	21,384	21,548	22,976
Missouri	20,897	21,854	21,875	23,432	23,504	23,896	24,003
Nebraska	13,333	14,079	14,381	14,576	14,679	14,795	14,976
North Dakota	2,533	2,854	3,208	3,286	3,312	3,351	3,455
South Dakota	2,554	2,609	2,785	2,946	2,987	3,106	3,269
South Atlantic	**100,496**	**103,960**	**112,722**	**123,600**	**126,728**	**131,461**	**135,143**
Delaware	1,322	1,336	1,428	1,726	1,665	1,742	1,799
District of Columbia	1,163	1,157	1,161	1,175	1,181	1,184	1,179
Florida	13,100	12,902	14,974	16,011	16,345	18,072	19,375
Georgia	22,679	24,676	27,190	31,402	32,062	32,803	33,711
Maryland	8,534	8,704	8,888	9,410	9,596	9,773	9,959
North Carolina	11,100	11,842	13,298	15,475	16,273	16,969	17,560
South Carolina	9,667	9,825	11,092	12,325	12,818	13,453	14,005
Virginia	10,944	11,226	12,315	14,157	14,788	15,333	15,527
West Virginia	21,987	22,292	22,376	21,919	22,000	22,132	22,028
East South Central	**70,345**	**73,807**	**78,485**	**85,254**	**87,244**	**89,982**	**93,290**
Alabama	17,832	19,556	20,779	22,109	22,877	23,704	24,339
Kentucky	19,816	19,981	20,991	21,866	22,125	22,438	23,231
Mississippi	17,056	17,911	18,666	19,183	19,308	19,569	19,904
Tennessee	15,641	16,359	18,049	22,096	22,934	24,271	25,816
West South Central	**194,820**	**216,394**	**237,776**	**249,484**	**250,712**	**252,185**	**260,304**
Arkansas	17,474	18,312	20,390	21,939	22,459	22,748	22,956
Louisiana	38,855	41,689	44,784	48,525	48,314	49,842	51,390
Oklahoma	32,798	37,132	42,594	42,593	42,922	43,305	46,438
Texas	105,693	119,261	130,008	136,427	137,017	136,290	139,520
Mountain	**83,184**	**97,391**	**107,410**	**111,549**	**115,288**	**114,773**	**117,316**
Arizona	15,197	16,669	17,341	18,085	18,359	18,190	19,317
Colorado	19,192	23,108	26,837	26,925	29,299	29,658	30,434
Idaho	3,785	4,177	4,589	4,769	4,923	5,020	5,260
Montana	7,435	8,822	8,965	9,465	9,601	9,641	9,738
Nevada	2,945	3,554	3,933	4,596	4,943	5,161	25,090
New Mexico	21,657	24,581	26,684	26,751	27,294	25,977	5,548
Utah	6,577	7,846	9,050	10,670	10,726	11,018	11,847
Wyoming	6,396	8,634	10,011	10,288	10,143	10,108	10,082
Pacific	**93,539**	**102,727**	**109,580**	**118,102**	**120,782**	**123,135**	**125,641**
Alaska	868	1,186	1,511	2,053	2,108	2,233	2,297
California	72,493	79,625	84,688	90,744	92,693	94,001	95,215
Hawaii	581	587	590	612	617	621	624
Oregon	8,838	9,709	10,390	11,044	11,269	11,443	11,846
Washington	10,759	11,620	12,401	13,649	14,095	14,837	15,659

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a. Includes field and gathering, underground storage, transmission and distribution main but excludes service pipe. Data not adjusted to common diameter equivalent. Mileage shown as of end of year.

R–Revised.

DISTRIBUTION AND TRANSMISSION

TABLE 5-3
GAS UTILITY INDUSTRY MILES OF PIPELINE AND MAIN, BY STATE AND TYPE OF MAIN, 1992[a]

Division and State	Total	Field and Gathering	Transmission Pipeline[b]	Distribution Main
United States	**1,253,924**	**86,180**	**284,517**	**883,227**
New England	**32,384**	**0**	**1,856**	**30,528**
Connecticut	32,384	0	480	6,543
Maine	19,864	0	77	389
Massachusetts	7,023	0	1,100	18,764
New Hampshire	1,598	0	84	1,514
Rhode Island	2,923	0	60	2,863
Vermont	510	0	55	455
Middle Atlantic	**130,933**	**6,451**	**18,413**	**106,069**
New Jersey	28,578	0	1,689	26,889
New York	45,746	589	3,958	41,199
Pennsylvania	56,609	5,862	12,766	37,981
East North Central	**228,764**	**4,248**	**38,151**	**186,365**
Illinois	58,630	0	11,826	46,804
Indiana	35,333	137	5,675	29,521
Michigan	49,474	174	7,493	41,807
Ohio	58,194	3,937	9,747	44,510
Wisconsin	27,133	0	3,410	23,723
West North Central	**130,149**	**9,176**	**39,415**	**81,558**
Iowa	20,308	0	6,145	14,163
Kansas	41,162	8,989	14,977	17,196
Minnesota	22,976	0	4,396	18,580
Missouri	24,003	25	4,011	19,967
Nebraska	14,976	33	7,618	7,325
North Dakota	3,455	114	1,299	2,042
South Dakota	3,269	15	969	2,285
South Atlantic	**135,143**	**8,220**	**22,561**	**104,362**
Delaware	1,799	0	313	1,486
District of Columbia	1,179	0	24	1,155
Florida	19,375	0	3,233	16,142
Georgia	33,711	0	5,206	28,505
Maryland	9,959	23	903	9,033
North Carolina	17,560	0	2,559	15,001
South Carolina	14,005	0	2,288	11,717
Virginia	15,527	150	2,700	12,677
West Virginia	22,028	8,047	5,335	8,646
East South Central	**93,290**	**4,090**	**27,186**	**62,014**
Alabama	24,339	7	5,595	18,737
Kentucky	23,231	3,852	7,379	12,000
Mississippi	19,904	231	9,481	10,192
Tennessee	25,816	0	4,731	21,085
West South Central	**260,304**	**34,943**	**94,767**	**130,594**
Arkansas	22,956	1,348	7,106	14,502
Louisiana	51,390	2,355	28,198	20,837
Oklahoma	46,438	13,407	13,362	19,669
Texas	139,520	17,833	46,101	75,586
Mountain	**117,316**	**18,066**	**30,275**	**68,975**
Arizona	19,317	0	5,439	13,878
Colorado	30,434	3,959	6,208	20,267
Idaho	5,260	0	1,578	3,682
Montana	9,738	2,072	3,337	4,329
Nevada	25,090	8	1,240	4,300
New Mexico	5,548	8,527	6,783	9,780
Utah	11,847	794	1,534	9,519
Wyoming	10,082	2,706	4,156	3,220
Pacific	**125,641**	**986**	**11,893**	**112,762**
Alaska	2,297	0	345	1,952
California	95,215	986	7,954	86,275
Hawaii	624	0	0	624
Oregon	11,846	0	1,536	10,310
Washington	15,659	0	2,058	13,601

a. Excludes 494,384 miles of service pipe. Data not adjusted to common diameter equivalent. Mileage shown as of end of year.
b. Includes 6,237 miles of underground storage pipe.

TABLE 5-4
GAS UTILITY INDUSTRY MILES OF PIPELINE AND MAIN INSTALLED DURING 1992, BY STATE AND BY TYPE OF PIPE[a]

		Field and Gathering	Transmission Pipeline	Distribution Main			
Division and State	Total[b]	Steel	Steel[c]	Total	Steel	Plastic[d]	Other
United States	**26,099**	**778**	**3,440**	**21,881**	**2,769**	**19,133**	**10**
New England	**545**	**0**	**66**	**479**	**34**	**445**	**0**
Connecticut	39	0	6	33	7	26	0
Maine	13	0	0	13	2	11	0
Massachusetts	420	0	60	360	22	338	0
New Hampshire	26	0	0	26	2	24	0
Rhode Island	36	0	0	36	1	35	0
Vermont	11	0	0	11	0	11	0
Middle Atlantic	**2,224**	**5**	**231**	**1,988**	**239**	**1,748**	**1**
New Jersey	487	0	31	456	48	408	0
New York	955	2	94	859	52	807	0
Pennsylvania	782	3	106	673	139	533	1
East North Central	**4,092**	**0**	**116**	**3,976**	**513**	**3,455**	**8**
Illinois	902	0	6	896	163	725	8
Indiana	619	0	33	586	21	565	0
Michigan	1,050	0	35	1,015	34	981	0
Ohio	380	0	22	358	89	269	0
Wisconsin	1,141	0	20	1,121	206	915	0
West North Central	**2,993**	**127**	**460**	**2,406**	**298**	**2,108**	**0**
Iowa	704	0	36	668	88	580	0
Kansas	594	127	242	225	48	177	0
Minnesota	918	0	95	823	33	790	0
Missouri	325	0	2	323	62	261	0
Nebraska	176	0	35	141	29	112	0
North Dakota	107	0	50	57	11	46	0
South Dakota	169	0	0	169	27	142	0
South Atlantic	**2,686**	**1**	**242**	**2,443**	**691**	**1,752**	**0**
Delaware	73	0	3	70	0	70	0
District of Columbia	11	0	0	11	1	10	0
Florida	422	0	51	371	105	266	0
Georgia	493	0	0	493	444	49	0
Maryland	214	0	25	189	16	173	0
North Carolina	636	0	67	569	51	518	0
South Carolina	460	0	18	442	35	407	0
Virginia	262	0	73	189	8	181	0
West Virginia	115	1	5	109	31	78	0
East South Central	**1,969**	**5**	**474**	**1,490**	**237**	**1,253**	**0**
Alabama	363	0	9	354	32	322	0
Kentucky	644	5	460	179	35	144	0
Mississippi	124	0	0	124	15	109	0
Tennessee	838	0	5	833	155	678	0
West South Central	**4,997**	**472**	**276**	**4,249**	**156**	**4,092**	**1**
Arkansas	224	9	0	215	0	215	0
Louisiana	283	30	83	170	15	155	0
Oklahoma	804	397	42	365	52	313	0
Texas	3,686	36	151	3,499	89	3,409	1
Mountain	**3,761**	**168**	**1,251**	**2,342**	**313**	**2,029**	**0**
Arizona	596	0	365	231	16	215	0
Colorado	976	126	339	511	102	409	0
Idaho	222	0	54	168	13	155	0
Montana	188	5	19	164	2	162	0
Nevada	217	0	0	217	9	208	0
New Mexico	461	14	49	398	4	394	0
Utah	472	0	29	443	112	331	0
Wyoming	629	23	396	210	55	155	0
Pacific	**2,832**	**0**	**324**	**2,508**	**288**	**2,251**	**0**
Alaska	44	0	0	44	0	44	0
California	1,470	0	103	1,367	174	1,193	0
Hawaii	3	0	0	3	0	34	0
Oregon	456	0	164	292	34	258	0
Washington	859	0	57	802	80	722	0

[a] Excludes service pipe. Data not adjusted to common diameter equivalent.

[b] Does not include 1,040 miles of plastic and other pipe classified as field and gathering and transmission pipe.

[c] Includes 83 miles of underground storage pipe.

[d] Includes fiberglass.

TABLE 5–5
GAS UTILITY INDUSTRY REQUIREMENTS OF STEEL PIPE FOR NEW CONSTRUCTION AND MAINTENANCE AND REPAIR BY SIZE OF PIPE, 1992

(Miles)

Size of Pipe	Total	New Construction	Maintenance Repair
Normal Pipe Size—Inches			
¾ and less	639.8	506.0	133.8
1	172.9	125.8	47.1
1¼	164.7	149.6	15.1
1½	19.6	17.8	1.8
Outside Diameter—Inches			
2⅜	1,077.7	769.8	307.9
3½	373.2	321.0	52.2
4½	662.9	540.1	122.8
6⅝	1,176.3	982.7	193.6
8¾	817.8	688.8	129.0
10¾	194.9	125.4	69.5
12¾	267.4	213.0	54.4
14	13.4	10.6	2.8
16	90.5	81.4	9.1
18	0.8	0.5	0.3
20	74.7	72.9	1.8
22	0.0	0.0	0.0
24	71.4	70.1	1.3
26	6.3	6.3	0.0
30	25.0	25.0	0.0
34	0.5	0.5	0.0
36	49.5	49.4	0.1
42	0.0	0.0	0.0
Other Sizes	2.4	0.1	2.3
Total	**5,901.7**	**4,756.8**	**1,144.9**

TABLE 5–6
GAS UTILITY INDUSTRY INSTALLED COMPRESSOR HORSEPOWER, 1968–1992

(Thousands)

Year	Total	Transmission
1968	11,438	9,146
1969	12,742	9,375
1970	13,150	9,692
1971	14,142	10,763
1972	14,506	10,976
1973	14,858	11,272
1974	15,181	11,883[a]
1975	15,413	12,069
1976	15,472	12,046
1977	15,553	12,105
1978	15,824	12,255
1979	16,030	12,437
1980	16,375	13,091
1981	16,601	13,270
1982	16,965	13,460
1983	16,900	13,426
1984	16,880	13,368
1985	16,567	13,131
1986	16,447	13,167
1987	16,356	13,650
1988	16,814	14,104
1989	16,688	13,871
1990	16,487	13,889
1991[R]	16,804	14,251
1992	16,726	14,188

a. Not comparable to previous years due to reclassification.
R–Revised.

TABLE 5-7
SELECTED STATISTICS FOR MAJOR TRANSMISSION COMPANIES, 1992

Name of Transmission System	No. of Transmission Compressor Stations	Total Miles of Transmission Pipeline	Peak Day Sendout (MMCF)	Operating Revenues ($000,000)
Algonquin Gas Transmission Co.	5	1,023	1,246	$ 303.1
ANR Pipeline Co.	47	9,915	1,508	1,175.9
Colorado Interstate Gas Co.	28	3,253	892	448.7
Columbia Gulf Transmission Co.	13	4,288	1,740	184.6
Consolidated Gas Transmission Corp.	52	4,250	6,110	681.2
East Tennessee Natural Gas Co.	17	1,149	493	225.1
El Paso Natural Gas Co.	86	10,244	350	970.9
Enron-Northern Natural	48	16,411	3,990	1,038.0
Florida Gas Transmission Co.	20	4,460	846	258.7
Midwestern Gas Transmission Co.	7	354	679	164.1
Mississippi River Transmission Co.	15	1,972	699	230.0
Natural Gas Pipeline Co. of America	56	10,973	a	1,620.4
Pacific Gas Transmission Co.	12	799	1,046	680.9
Panhandle Eastern Pipeline Co.	58	6,476	289	484.1
South Georgia Natural Gas Co.	3	847	a	13.5
Southern Natural Gas Co.	48	7,896	2,337	689.0
Tenneco, Inc.	69	14,666	6,204	1,159.0
Texas Eastern Transmission Co.	69	9,386	4,712	1,249.0
Texas Gas Transmission Corp.	28	5,819	10,060	461.7
Transcontinental Gas Pipeline Corp.	43	10,670	6,700	1,257.2
Transwestern Pipeline Co.	20	4,194	1,092	210.8
Trunkline Gas Co.	19	4,218	372	773.3
United Gas Pipeline Co.	29	7,272	275	268.9
Williams Natural Gas Co.	45	6,094	2,152	332.6

a. Not available.

Source: Federal Energy Regulatory Commission, FERC Form No. 2: Annual Report of Natural Gas Companies (Class A and Class B), 1992.

SECTION 6
SALES—QUANTITIES

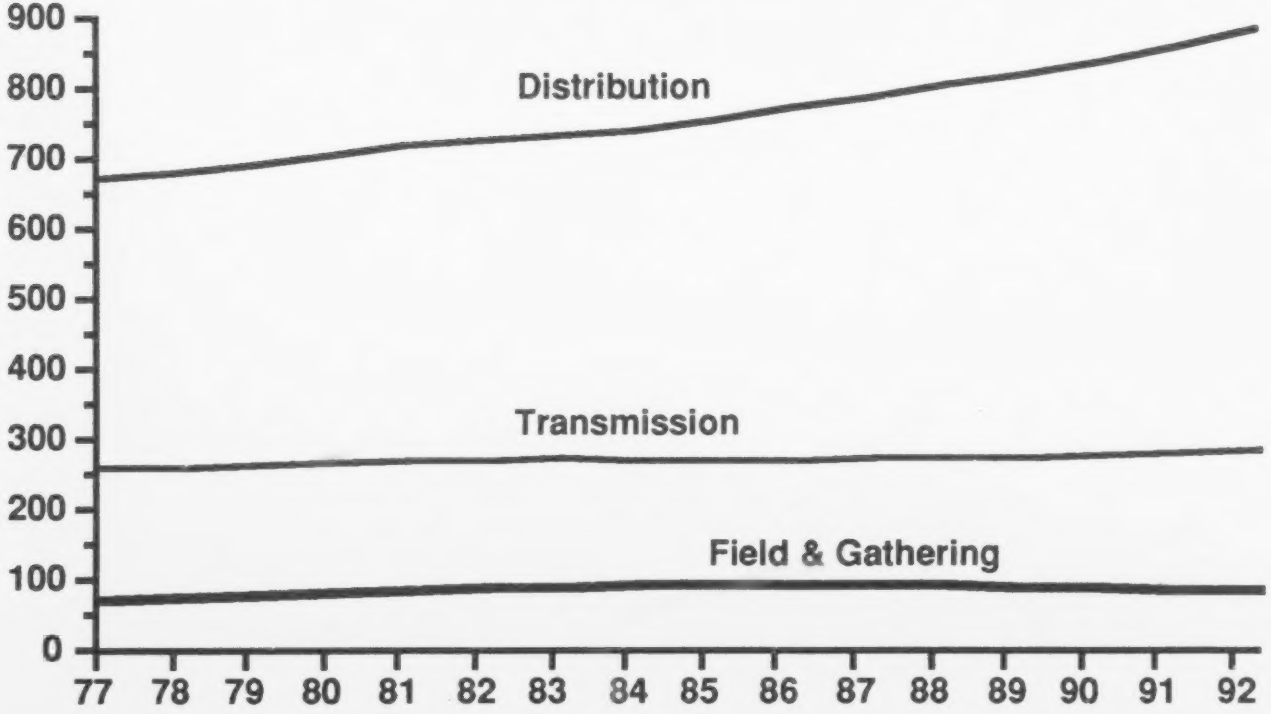
	1992	% Change 92/91
Gas Utility Industry		
(Trillions of Btu)		
Total Sales	9,906.5	+ 3.2
Residential	4,694.4	+ 3.3
Commercial	2,208.7	+ 0.5
Industrial	2,772.2	+ 5.4
Industrial Only	1,959.5	+12.4
Electric Generation	812.7	− 8.5
Other	231.2	+ 2.4
Transportation Volumes	5,243.4	+ 1.0
Total Deliveries	15,149.9	+ 2.4
Resale	3,180.2	− 4.3

Note: Comsumption includes all natural gas deliveries to end users by all segments of the industry (producers, gatherers, pipelines, local distribution companies) along with pipeline fuel and lease and plant fuel. For reporting purposes in *Gas Facts*, utility sales includes only system sales by local distribution companies and pipeline companies. This data can be found in Tables 6-1 thru 6-8, 6-13 and 6-14. Transportation to end users is gas owned by the end user and delivered to that end-user by local distribution companies or pipeline companies. See Table 6-4. Deliveries to end users includes utility sales and transportation volumes delivered to end users. This data is detailed in Tables 6-9, 6-10 and 6-11. Consumption figures can be found on Tables 10-1 thru 10-4. Consumption per customer data in Tables 10-5, 10-6 and 10-8 are calculating using utility sales only.

CHART 5-1

GAS UTILITY INDUSTRY MILES OF PIPELINE AND MAIN

(THOUSANDS OF MILES)



REFERENCE: TABLE 5-1

SALES—QUANTITIES

TABLE 6-1
GAS UTILITY INDUSTRY SALES, BY CLASS OF SERVICE
1968-1992

(Trillions of Btu)

Year	Total	Residential	Commercial	Industrial[a]	Other[a]
1968	14,472.4	4,552.7	1,704.9	7,595.1	619.7
1969	15,391.6	4,820.4	1,878.1	8,135.8	557.3
1970	16,043.5	4,923.7	2,006.6	8,439.2	674.0
1971	16,685.7	5,040.1	2,155.5	8,645.5	844.7
1972	17,082.1	5,141.8	2,275.7	8,775.7	888.8
1973	16,479.9	4,993.6	2,280.8	8,370.8	834.7
1974	16,000.3	4,864.8	2,293.4	8,153.2	689.0
1975	14,862.9	4,991.0	2,386.8	6,837.1	648.0
1976	14,813.5	5,014.2	2,422.6	7,192.0	184.6
1977	14,340.9	4,946.3	2,409.4	6,796.4	188.9
1978	14,748.4	5,106.7	2,499.5	6,931.5	210.7
1979	15,440.3	5,083.1	2,485.8	7,641.4	230.0
1980	15,413.2	4,826.1	2,453.4	7,965.9	167.7
1981	15,374.8	4,609.7	2,375.4	8,239.3	150.4
1982	14,182.7	4,769.8	2,471.3	6,794.3	147.3
1983	12,857.5	4,449.6	2,298.2	5,969.4	140.2
1984	13,161.7	4,628.3	2,396.0	5,991.0	146.4
1985	12,615.2	4,513.0	2,338.0	5,634.7	129.5
1986	11,125.1	4,380.8	2,238.9	4,338.2	167.2
1987	10,543.4	4,385.0	2,155.9	3,847.9	154.6
1988	10,705.3	4,695.0	2,306.0	3,544.1	160.2
1989	10,551.1	4,798.0	2,321.8	3,243.4	187.9
1990	9,841.8	4,468.4	2,192.0	3,010.4	171.0
1991[R]	9,601.4	4,546.3	2,198.1	2,631.3	225.7
1992	9,906.5	4,694.4	2,208.7	2,772.2	231.2

a. Prior to 1976, "Other" electric generation (see Table 6-13) is included in the "Other" class of service. For 1976 and beyond all electric generation is included in the Industrial category.

R–Revised.

TABLE 6-2
GAS UTILITY INDUSTRY SALES, BY CLASS OF SERVICE AND TYPE OF COMPANY
1986-1992[a]

(Trillions of Btu)

	1986	1987	1988	1989	1990	1991[R]	1992
Distribution							
Total	**3,439**	**3,251**	**3,278**	**3,531**	**3,368**	**3,089**	**3,449**
Residential	1,632	1,621	1,748	1,826	1,774	1,688	1,902
Commercial	906	871	890	885	854	801	893
Industrial	874	732	614	795	713	573	627
Other	27	27	26	25	27	27	27
Transmission							
Total	**1,496**	**1,408**	**1,264**	**1,098**	**1,020**	**942**	**1,095**
Residential	1	1	2	2	1	1	1
Commercial	5	3	12	6	4	3	4
Industrial	1,437	1,375	1,220	1,086	1,010	928	1,086
Other	53	29	30	4	4	10	4
Integrated							
Total	**2,396**	**2,209**	**2,273**	**2,017**	**1,813**	**1,951**	**1,656**
Residential	1,025	1,052	1,103	1,064	946	1,036	927
Commercial	469	454	494	485	442	486	402
Industrial	873	665	631	369	338	330	227
Other	29	38	45	99	87	99	100
Combination							
Total	**3,234**	**3,102**	**3,285**	**3,298**	**3,061**	**3,028**	**3,090**
Residential	1,458	1,445	1,563	1,624	1,486	1,550	1,582
Commercial	724	690	769	802	753	767	759
Industrial	1,009	925	912	829	784	633	660
Other	43	42	41	43	38	78	89
Municipals							
Total	**561**	**573**	**605**	**608**	**580**	**591**	**616**
Residential	264	265	280	282	262	271	283
Commercial	136	138	140	144	138	141	150
Industrial	145	152	168	165	165	168	172
Other	16	18	17	17	15	11	11

a. All electric generation is included in the Industrial category.

R–Revised.

Note: This table depicts total sales as shown on Table 6-1, by company type. Also, data by company type not directly comparable from year to year due to acquisitions and mergers. See page ix.

TABLE 6-3
GAS UTILITY INDUSTRY SALES, BY QUARTER AND CLASS OF SERVICE
1975-1992

(Trillions of Btu)

Year and Quarter	Total	Residential	Commercial	Industrial[a]	Other[a]
1975					
First	4,931.5	2,192.8	970.4	1,598.7	169.6
Second	3,520.9	1,137.7	536.3	1,715.9	131.0
Third	2,794.9	474.9	301.2	1,842.2	176.6
Fourth	3,615.6	1,185.6	579.0	1,680.2	170.8
1980					
First	5,434.3	2,218.9	1,031.1	2,121.8	62.5
Second	3,258.5	914.7	464.5	1,845.7	33.6
Third	2,753.3	405.3	300.1	2,021.5	26.4
Fourth	3,967.1	1,287.3	657.7	1,974.9	47.2
1984					
First	4,918.2	2,199.7	1,050.1	1,608.3	60.1
Second	2,821.1	882.5	464.2	1,446.0	28.4
Third	2,182.9	383.7	276.5	1,504.2	18.5
Fourth	3,239.5	1,162.4	605.2	1,432.5	39.4
1985					
First	4,761.7	2,161.7	1,030.7	1,515.3	54.0
Second	2,441.2	740.5	399.9	1,277.0	23.8
Third	2,081.9	381.9	269.2	1,413.9	16.9
Fourth	3,330.4	1,228.9	638.2	1,428.5	34.8
1986					
First	4,306.9	2,038.9	973.3	1,240.9	53.8
Second	2,203.9	729.9	384.5	1,050.5	39.0
Third	1,714.2	384.1	260.0	1,041.2	28.9
Fourth	2,900.1	1,227.9	621.1	1,005.6	45.5
1987					
First	3,971.2	2,010.9	919.1	986.8	54.4
Second	2,076.8	749.8	380.3	918.0	28.7
Third	1,636.6	377.2	249.9	983.0	26.5
Fourth	2,858.8	1,247.1	606.6	960.1	45.0
1988					
First	4,273.9	2,226.1	1,016.0	968.8	63.0
Second	1,950.2	774.6	398.7	749.0	27.9
Third	1,676.2	374.7	256.4	1,026.6	18.5
Fourth	2,805.0	1,319.6	634.9	799.7	50.8
1989					
First	4,042.9	2,141.6	961.8	881.5	58.0
Second	1,930.9	793.2	411.8	690.7	35.2
Third	1,498.5	392.4	257.2	814.4	34.5
Fourth	3,078.8	1,470.8	691.0	856.8	60.2
1990					
First	3,660.9	1,972.1	898.0	730.5	60.3
Second	1,906.8	796.1	409.5	667.2	34.0
Third	1,499.5	383.2	256.6	832.1	27.6
Fourth	2,774.6	1,317.0	627.9	780.5	49.2
1991R					
First	3,780.5	2,048.3	933.2	722.0	77.0
Second	1,748.9	757.3	384.5	559.9	47.2
Third	1,359.3	398.3	258.3	658.9	43.8
Fourth	2,712.7	1,342.4	622.1	690.5	57.7
1992					
First	3,660.2	2,032.3	885.3	673.9	68.7
Second	1,868.6	818.1	411.5	589.3	49.7
Third	1,335.4	409.1	254.9	620.6	50.8
Fourth	3,042.3	1,434.9	657.0	888.4	62.0

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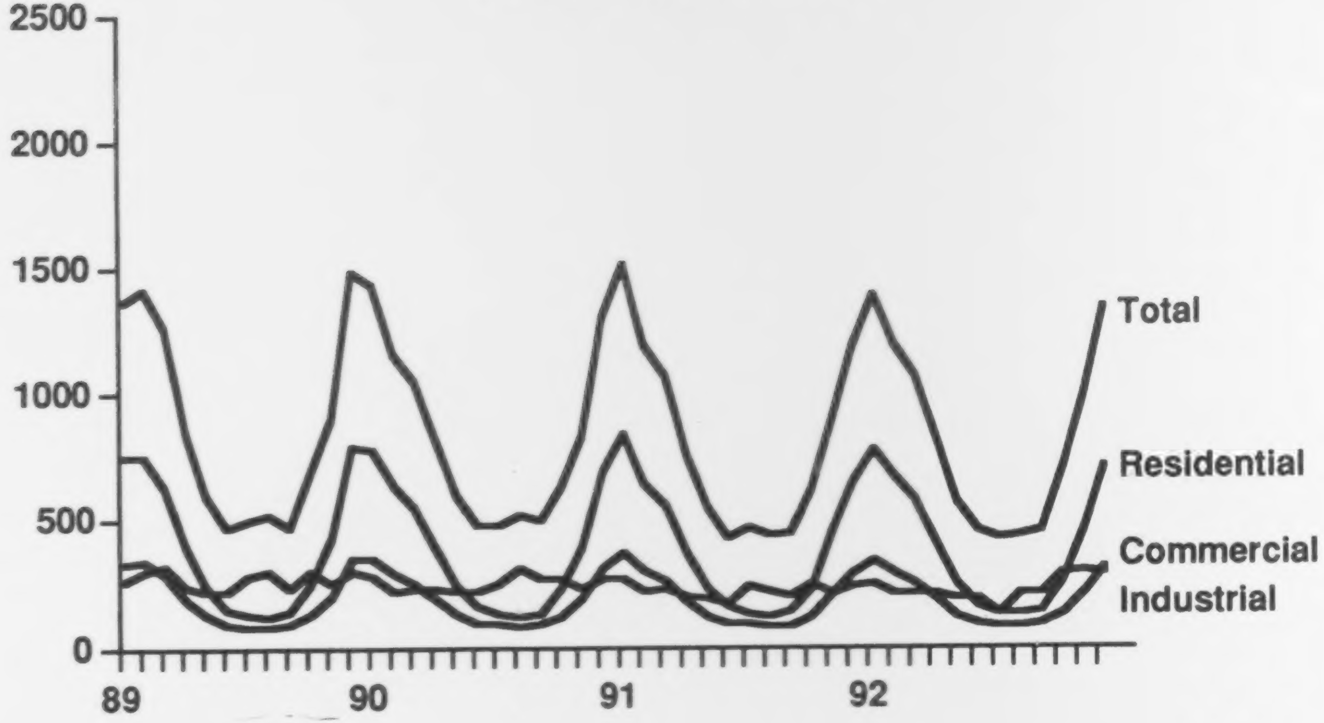
a. Prior to 1976, "Other" electric generation (see Table 6-13) is included in the "Other" class of service. For 1976 and beyond all electric generation is included in the Industrial category.

R–Revised.

CHART 6-2

UTILITY SALES OF NATURAL GAS TO CONSUMERS BY MONTH, 1989 - 1992

(TRILLIONS OF BTU)



REFERENCE: TABLE 6-4

TABLE 6-5
GAS UTILITY INDUSTRY SALES, BY STATE, 1975-1992[a]

(Trillions of Btu)

Division and State	1975	1980	1985	1989	1990	1991R	1992
United States	**14,862.9**	**15,413.2**	**12,615.2**	**10,551.1**	**9,841.8**	**9,601.4**	**9,906.5**
New England	**243.5**	**298.2**	**348.5**	**400.1**	**387.0**	**364.5**	**402.6**
Connecticut	61.0	73.4	78.6	89.0	91.4	87.8	96.1
Maine	2.0	2.2	2.6	3.7	4.3	4.8	5.1
Massachusetts	145.9	182.5	220.9	255.7	238.5	218.3	239.3
New Hampshire	7.8	9.5	10.6	15.4	14.5	14.0	17.0
Rhode Island	23.4	26.4	30.6	29.8	31.4	32.3	37.1
Vermont	3.4	4.1	5.2	6.5	7.0	7.4	8.0
Middle Atlantic	**1,495.1**	**1,658.2**	**1,499.9**	**1,422.2**	**1,334.8**	**1,308.7**	**1,482.0**
New Jersey	257.9	322.7	334.8	381.7	354.4	371.9	447.7
New York	581.9	600.8	639.1	574.1	570.6	537.5	594.2
Pennsylvania	655.4	734.7	526.0	466.4	409.8	399.3	440.2
East North Central	**3,749.5**	**3,658.1**	**2,897.2**	**2,327.9**	**2,084.5**	**2,106.5**	**2,187.1**
Illinois	1,112.4	1,100.3	900.9	708.6	620.7	611.1	616.4
Indiana	458.8	475.9	399.0	277.8	262.1	261.6	283.5
Michigan	885.8	850.0	667.6	536.0	480.6	485.9	510.3
Ohio	929.8	888.0	624.7	563.0	491.5	502.8	531.7
Wisconsin	362.7	343.9	305.0	242.5	229.6	245.1	245.1
West North Central	**1,592.4**	**1,412.3**	**1,144.0**	**914.2**	**832.2**	**865.8**	**813.8**
Iowa	298.8	255.8	216.9	168.0	149.2	153.5	139.2
Kansas	410.4	364.6	248.7	141.2	134.0	137.4	125.2
Minnesota	295.0	267.1	250.8	243.6	224.1	244.3	237.1
Missouri	344.5	326.8	256.2	219.6	195.2	192.2	185.8
Nebraska	187.2	152.5	124.0	98.4	90.4	95.8	86.1
North Dakota	24.7	21.6	22.6	20.4	18.3	19.8	18.3
South Dakota	31.8	23.9	24.8	23.0	21.0	22.8	22.0
South Atlantic	**1,106.1**	**1,255.7**	**1,095.0**	**1,083.9**	**1,012.9**	**897.9**	**970.1**
Delaware	19.3	22.7	22.6	22.1	21.8	20.3	22.3
District of Columbia	24.8	27.6	28.0	32.6	31.3	30.0	32.1
Florida	127.4	232.2	232.9	281.6	221.9	120.5	105.8
Georgia	312.5	299.7	270.5	202.4	203.6	196.7	214.6
Maryland	138.8	154.6	118.5	133.6	128.6	126.4	135.2
North Carolina	104.8	143.2	125.3	130.6	130.4	135.8	157.5
South Carolina	118.3	112.3	94.5	93.3	95.7	101.1	110.0
Virginia	116.0	134.8	124.3	123.6	118.6	114.2	127.2
West Virginia	144.3	128.6	78.4	64.1	61.1	53.0	65.4
East South Central	**752.8**	**808.0**	**625.3**	**487.3**	**448.7**	**460.7**	**490.7**
Alabama	227.9	224.6	179.2	118.4	110.7	106.5	114.7
Kentucky	180.0	175.9	141.7	118.2	102.7	117.4	123.5
Mississippi	141.3	191.5	140.9	87.5	76.5	76.7	91.3
Tennessee	203.5	216.1	163.5	163.2	158.8	160.1	161.2
West South Central	**2,973.6**	**3,534.9**	**2,330.4**	**1,730.0**	**1,685.2**	**1,698.4**	**1,811.5**
Arkansas	219.4	207.4	142.9	92.5	84.4	83.0	81.5
Louisiana	457.3	515.2	285.2	226.3	211.4	222.1	438.0
Oklahoma	417.9	472.3	263.4	203.7	216.6	214.9	152.9
Texas	1,878.9	2,340.0	1,638.9	1,207.5	1,172.8	1,178.4	1,139.1
Mountain	**928.6**	**841.9**	**655.4**	**526.6**	**486.1**	**520.2**	**484.0**
Arizona	144.4	136.4	119.4	113.6	80.1	92.8	64.9
Colorado	269.2	242.3	191.6	165.8	164.8	173.0	165.5
Idaho	51.2	45.4	33.0	17.3	17.3	19.6	18.1
Montana	79.8	54.1	44.0	42.3	39.0	40.0	34.6
Nevada	61.3	62.1	41.5	33.1	35.5	36.7	34.6
New Mexico	142.5	125.7	74.7	52.2	53.3	53.7	73.2
Utah	119.4	121.7	113.2	78.0	73.2	80.8	71.1
Wyoming	60.8	54.3	38.0	24.3	22.9	23.6	21.9
Pacific	**2,021.3**	**1,945.9**	**2,019.5**	**1,658.9**	**1,570.2**	**1,378.7**	**1,264.7**
Alaska	30.7	32.3	42.6	40.0	40.0	35.2	30.7
California	1,735.6	1,700.0	1,762.9	1,426.6	1,337.0	1,136.7	1,042.6
Hawaii	3.6	3.5	3.1	3.4	3.5	3.4	3.4
Oregon	86.8	76.4	77.2	53.1	55.5	60.6	56.1
Washington	164.6	133.8	133.7	135.8	134.2	142.8	131.9

a. Excludes sales for resale.
R–Revised.

TABLE 6-6
GAS UTILITY INDUSTRY SALES OF GAS FOR RESALE, BY STATE
1975-1992

(Trillions of Btu)

Division and State	1975	1980	1985	1989	1990	1991	1992
United States	**14,504.5**	**15,705.1**	**10,408.1**	**5,014.7**	**3,981.7**	**3,322.3**	**3,180.4**
New England	**271.5**	**299.8**	**291.8**	**192.3**	**141.9**	**88.0**	**94.1**
Connecticut	82.7	76.4	67.2	49.5	35.3	21.5	8.9
Maine	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Massachusetts	160.0	188.8	188.1	116.0	87.4	53.3	79.2
New Hampshire	5.8	6.8	7.6	4.3	3.4	2.5	0.0
Rhode Island	21.8	27.9	28.9	22.5	15.8	10.7	6.0
Vermont	1.3	0.0	0.0	0.0	0.0	0.0	0.0
Middle Atlantic	**1,901.6**	**2,334.0**	**1,671.4**	**849.8**	**731.7**	**517.2**	**370.3**
New Jersey	370.2	510.6	404.7	255.1	194.6	137.1	103.5
New York	572.2	707.5	566.3	233.7	234.1	159.0	98.5
Pennsylvania	959.2	1,115.9	700.4	361.0	303.0	221.1	168.3
East North Central	**4,542.8**	**4,442.0**	**2,945.1**	**1,221.4**	**890.9**	**778.0**	**676.0**
Illinois	1,537.1	1,613.3	1,147.1	513.8	393.2	377.2	319.2
Indiana	406.8	461.4	325.8	206.9	173.3	143.5	131.2
Michigan	759.4	615.8	329.7	145.4	89.2	75.7	71.6
Ohio	1,356.1	1,315.3	774.8	222.9	129.6	53.3	47.0
Wisconsin	483.4	436.1	367.7	132.4	105.6	128.3	107.0
West North Central	**1,144.5**	**1,043.9**	**903.9**	**535.6**	**378.7**	**305.0**	**266.6**
Iowa	259.7	208.9	160.8	76.4	48.2	58.3	49.7
Kansas	169.7	149.4	127.6	71.9	56.2	53.4	64.4
Minnesota	239.0	239.1	225.6	126.3	105.3	36.8	18.9
Missouri	338.0	337.8	275.0	179.3	125.8	118.2	103.7
Nebraska	111.7	86.4	73.1	52.2	28.3	22.7	18.2
North Dakota	5.5	4.9	17.4	12.0	8.4	8.4	7.3
South Dakota	20.8	17.5	24.4	17.5	6.5	7.2	4.4
South Atlantic	**1,372.5**	**1,470.3**	**893.7**	**484.3**	**361.2**	**348.0**	**385.7**
Delaware	1.2	1.2	1.8	8.7	6.2	4.8	6.3
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Florida	82.7	94.7	91.8	96.4	82.8	54.5	31.8
Georgia	315.5	308.7	257.7	96.1	81.7	92.6	80.0
Maryland	151.0	184.5	110.1	75.1	17.6	25.4	41.3
North Carolina	118.5	165.8	124.7	28.0	48.4	45.7	50.7
South Carolina	127.6	135.2	83.9	48.7	43.0	38.1	39.8
Virginia	181.9	209.1	155.4	62.5	57.4	32.4	39.9
West Virginia	394.1	371.2	68.3	68.8	24.1	54.5	95.9
East South Central	**1,178.0**	**1,256.5**	**745.6**	**309.7**	**202.8**	**180.8**	**218.7**
Alabama	219.3	219.8	168.0	56.2	31.3	27.9	35.1
Kentucky	238.4	237.3	157.8	67.8	54.5	52.4	56.3
Mississippi	263.1	289.1	127.1	35.5	20.4	23.4	25.5
Tennessee	457.3	510.3	292.7	150.2	96.6	77.1	101.8
West South Central	**1,215.9**	**2,007.4**	**818.9**	**498.6**	**485.1**	**456.3**	**604.5**
Arkansas	16.1	16.0	12.9	9.4	8.4	9.9	4.5
Louisiana	569.2	661.9	268.5	142.5	125.1	63.4	85.7
Oklahoma	148.6	206.2	61.4	28.9	35.0	18.5	60.0
Texas	482.1	1,123.3	476.1	317.8	316.6	364.5	454.3
Mountain	**1,901.8**	**1,871.0**	**1,490.5**	**416.6**	**315.0**	**253.2**	**209.1**
Arizona	1,341.0	1,370.5	1,062.6	175.5	98.7	67.5	0.1
Colorado	279.6	261.8	194.8	127.9	125.0	111.8	92.9
Idaho	84.2	66.7	50.2	3.8	1.0	1.3	1.3
Montana	7.7	7.6	17.6	13.1	10.6	10.3	7.8
Nevada	9.5	9.9	10.3	10.5	6.2	3.5	0.0
New Mexico	71.8	58.6	37.8	18.9	13.7	3.7	51.2
Utah	7.4	8.4	75.8	54.6	49.4	47.1	45.6
Wyoming	100.6	87.5	41.4	12.3	10.4	7.9	10.2
Pacific	**975.9**	**980.1**	**647.2**	**506.4**	**474.4**	**395.8**	**355.4**
Alaska	0.0	27.4	0.0	0.0	0.0	0.0	0.0
California	346.5	436.5	145.0	80.2	57.2	30.1	27.6
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oregon	470.2	388.3	372.9	381.5	378.8	336.9	310.7
Washington	159.1	127.8	129.3	44.7	38.4	28.8	17.1

TABLE 6-7
GAS UTILITY INDUSTRY SALES, BY STATE AND CLASS OF SERVICE, 1992

(Trillions of Btu)

		Class of Service					
Division and State	Total	Residential	Commercial	Industrial	Electric Generation	Other	Average Btu Value
United States	**9,906.5**	**4,694.4**	**2,208.7**	**1,959.5**	**812.7**	**231.2**	**1,025.0**
New England	**402.6**	**185.1**	**115.4**	**75.9**	**20.4**	**5.8**	**1,033.0**
Connecticut	96.1	42.0	28.5	22.9	0.8	1.9	1,030.0
Maine	5.1	0.9	2.2	2.0	0.0	0.0	1,032.0
Massachusetts	239.3	113.2	68.3	39.6	15.3	2.9	1,038.1
New Hampshire	17.0	6.3	5.3	4.1	0.5	0.7	1,007.4
Rhode Island	37.1	19.9	9.4	4.6	3.0	0.2	1,027.9
Vermont	8.0	2.8	1.7	2.6	0.8	a	997.0
Middle Atlantic	**1,482.0**	**850.1**	**348.3**	**203.1**	**45.4**	**35.1**	**1,034.1**
New Jersey	447.7	200.2	126.2	91.3	29.7	0.3	1,036.7
New York	594.2	377.6	128.3	44.7	15.7	27.9	1,031.1
Pennsylvania	440.2	272.3	93.8	67.1	0.1	7.0	1,035.7
East North Central	**2,187.1**	**1,437.7**	**516.6**	**220.6**	**2.4**	**9.8**	**1,019.0**
Illinois	616.4	441.0	129.2	44.0	0.8	1.3	1,015.7
Indiana	283.5	155.3	69.6	57.2	a	1.4	996.3
Michigan	510.3	362.5	122.4	25.0	0.3	0.1	1,021.5
Ohio	531.7	354.4	135.7	34.3	0.6	6.7	1,038.1
Wisconsin	245.1	124.5	59.7	60.1	0.6	0.3	1,007.5
West North Central	**813.8**	**445.0**	**251.5**	**109.8**	**4.1**	**3.4**	**1,005.8**
Iowa	139.2	75.6	43.6	18.2	0.7	1.0	1,006.3
Kansas	125.2	73.2	39.6	10.7	1.2	0.5	1,001.3
Minnesota	237.1	115.0	68.0	52.2	1.1	0.8	1,007.2
Missouri	185.8	118.0	58.3	8.4	0.3	1.0	1,012.1
Nebraska	86.1	42.1	28.2	15.0	0.6	0.2	986.7
North Dakota	18.3	10.1	7.5	0.7	a	a	1,044.8
South Dakota	22.0	10.9	6.3	4.7	0.1	0.0	1,001.0
South Atlantic	**970.1**	**378.0**	**264.1**	**297.5**	**28.1**	**2.4**	**1,032.9**
Delaware	22.3	8.5	5.1	8.3	0.4	a	1,035.3
District of Columbia	32.1	12.5	19.6	0.0	0.0	0.0	1,020.0
Florida	105.8	17.7	44.1	31.6	11.4	0.9	1,036.7
Georgia	214.6	107.0	46.9	59.2	1.2	0.1	1,024.6
Maryland	135.2	69.7	34.2	23.8	7.4	0.1	1,031.5
North Carolina	157.5	44.1	33.4	77.1	2.8	a	1,033.5
South Carolina	110.0	23.2	17.4	67.9	0.4	1.0	1,027.5
Virginia	127.2	56.8	48.5	21.8	a	0.1	1,031.1
West Virginia	65.4	38.5	14.7	7.7	4.4	0.1	1,076.4
East South Central	**490.7**	**194.6**	**115.1**	**157.6**	**11.2**	**12.2**	**1,031.2**
Alabama	114.7	50.3	24.1	39.7	0.1	0.5	1,030.4
Kentucky	123.5	64.7	29.5	24.7	0.0	4.5	1,027.6
Mississippi	91.3	26.5	14.1	36.0	11.1	3.5	1,027.9
Tennessee	161.2	53.1	47.4	57.1	a	3.6	1,037.2
West South Central	**1,811.5**	**368.2**	**202.4**	**613.7**	**525.6**	**101.6**	**1,026.2**
Arkansas	81.5	40.4	23.0	17.7	0.0	0.4	1,008.0
Louisiana	438.0	55.9	21.0	253.8	32.2	75.1	1,035.8
Oklahoma	152.9	66.5	30.6	43.7	12.1	0.1	1,013.4
Texas	1,139.1	205.4	127.8	298.5	481.4	26.1	1,025.8
Mountain	**484.0**	**266.7**	**161.8**	**25.8**	**20.6**	**9.1**	**1,019.9**
Arizona	64.9	28.8	24.0	6.2	4.1	1.9	1,030.8
Colorado	165.5	96.9	64.7	2.3	1.4	0.3	1,012.4
Idaho	18.1	9.7	6.8	1.6	0.0	a	1,029.6
Montana	34.6	19.5	11.8	2.3	a	1.0	1,028.9
Nevada	34.6	18.9	14.6	0.5	0.2	0.4	1,031.4
New Mexico	73.2	33.4	13.9	5.6	14.8	5.5	1,039.5
Utah	71.1	48.1	17.8	5.2	a	a	1,000.6
Wyoming	21.9	11.4	8.3	2.2	0.0	0.1	1,011.9
Pacific	**1,264.7**	**569.0**	**233.5**	**255.5**	**154.9**	**51.8**	**1,026.6**
Alaska	30.7	14.3	11.4	0.0	5.0	0.1	1,003.0
California	1,042.6	487.0	163.4	191.2	149.7	51.3	1,025.8
Hawaii	3.4	0.6	1.6	1.2	0.0	0.0	1,070.0
Oregon	56.1	23.9	19.7	12.5	0.0	0.0	1,035.3
Washington	131.9	43.2	37.4	50.7	0.2	0.4	1,034.3

a. Less than 0.05 trillion Btu.

Note: See explanation on page 67 about transportation volumes.

TABLE 6-8
GAS UTILITY INDUSTRY FIRM AND INTERRUPTIBLE GAS SALES BY STATE, 1992

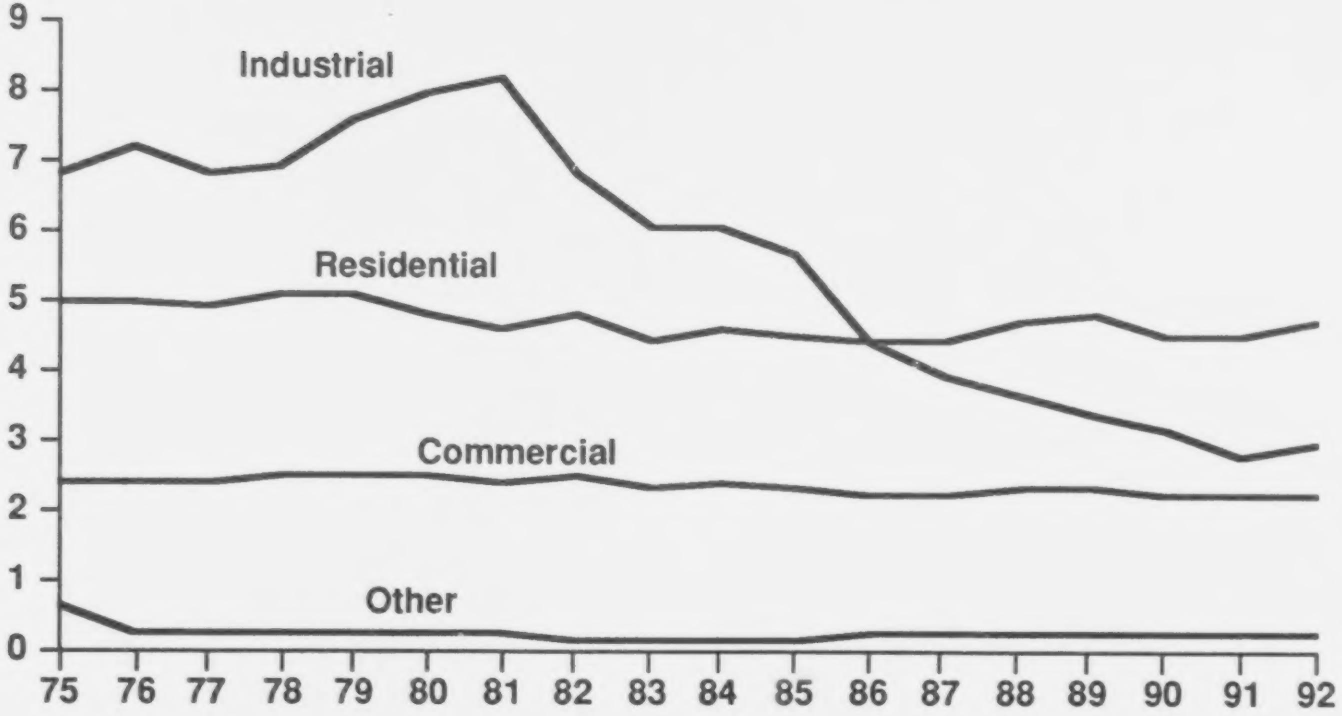
(Trillions of Btu)

	Commercial			Industrial[a]		
Division and State	Total	Firm	Interruptible	Total	Firm	Interruptible
United States	**2,208.7**	**1,998.1**	**210.6**	**1,959.5**	**820.0**	**1,139.5**
New England	**115.4**	**103.8**	**11.5**	**75.9**	**40.0**	**35.9**
Connecticut	28.5	22.3	6.2	22.9	11.8	11.1
Maine	2.2	2.2	0.0	2.0	1.1	0.9
Massachusetts	68.3	65.3	2.9	39.6	22.5	17.2
New Hampshire	5.3	5.3	b	4.1	2.1	2.0
Rhode Island	9.4	7.0	2.4	4.6	2.4	2.2
Vermont	1.7	1.7	0.0	2.6	0.1	2.5
Middle Atlantic	**348.3**	**320.3**	**27.9**	**203.1**	**96.1**	**107.0**
New Jersey	126.2	103.5	22.7	91.3	25.3	66.0
New York	128.3	126.5	1.8	44.7	27.9	16.8
Pennsylvania	93.8	90.3	3.4	67.1	42.9	24.2
East North Central	**516.6**	**508.7**	**7.9**	**220.6**	**160.1**	**60.5**
Illinois	129.2	128.8	0.4	44.0	37.7	6.3
Indiana	69.6	65.8	3.8	57.2	35.1	22.1
Michigan	122.4	122.4	0.0	25.0	23.5	1.5
Ohio	135.7	135.1	0.6	34.3	31.2	3.1
Wisconsin	59.7	56.6	3.1	60.1	32.6	27.5
West North Central	**251.5**	**233.1**	**18.5**	**109.8**	**45.6**	**64.2**
Iowa	43.6	39.0	4.7	18.2	10.5	7.8
Kansas	39.6	37.4	2.2	10.7	6.6	4.1
Minnesota	68.0	61.7	6.3	52.2	16.2	36.0
Missouri	58.3	56.6	1.7	8.4	5.1	3.3
Nebraska	28.2	25.1	3.1	15.0	4.9	10.1
North Dakota	7.5	7.1	0.4	0.7	b	0.6
South Dakota	6.3	6.2	0.1	4.7	2.3	2.3
South Atlantic	**264.1**	**229.6**	**34.5**	**297.5**	**135.9**	**161.5**
Delaware	5.1	5.1	9.2	8.3	6.7	1.6
District of Columbia	19.6	10.5	0.0	0.0	0.0	0.0
Florida	44.1	43.7	0.4	31.6	8.7	23.0
Georgia	46.9	46.7	0.3	59.2	21.4	37.8
Maryland	34.2	25.3	8.9	23.8	16.9	6.9
North Carolina	33.4	30.6	2.8	77.1	36.9	40.2
South Carolina	17.4	14.1	3.3	67.9	31.7	36.2
Virginia	48.5	40.4	8.1	21.8	9.2	12.5
West Virginia	14.7	13.2	1.5	7.7	4.4	3.3
East South Central	**115.1**	**109.2**	**5.9**	**157.6**	**107.3**	**50.2**
Alabama	24.1	22.2	1.9	39.7	23.0	16.7
Kentucky	29.5	29.2	0.3	24.7	15.3	9.4
Mississippi	14.1	13.5	0.6	36.0	34.3	1.7
Tennessee	47.4	44.3	3.1	57.1	34.7	22.4
West South Central	**202.4**	**199.8**	**2.5**	**613.7**	**188.3**	**425.4**
Arkansas	23.0	23.0	b	17.7	7.1	10.6
Louisiana	21.0	20.7	0.2	253.8	44.4	209.4
Oklahoma	30.6	29.2	1.4	43.7	20.8	22.9
Texas	127.8	126.9	0.9	298.5	116.0	182.5
Mountain	**161.8**	**160.7**	**1.2**	**25.8**	**19.8**	**6.1**
Arizona	24.0	23.7	0.3	6.2	5.9	0.3
Colorado	64.7	64.2	0.5	2.3	0.6	1.7
Idaho	6.8	6.8	0.0	1.6	1.4	0.2
Montana	11.8	11.8	b	2.3	1.9	0.5
Nevada	14.6	14.6	0.0	0.5	0.5	0.0
New Mexico	13.9	13.5	0.4	5.6	5.5	b
Utah	17.8	17.8	0.0	5.2	3.3	1.9
Wyoming	8.3	8.3	b	2.2	0.7	1.5
Pacific	**233.5**	**132.9**	**100.7**	**255.5**	**26.9**	**228.7**
Alaska	11.4	11.4	0.0	0.0	0.0	0.0
California	163.4	72.3	91.1	191.2	8.3	182.9
Hawaii	1.6	1.2	0.4	1.2	1.2	0.0
Oregon	19.7	19.7	0.0	12.5	7.3	5.2
Washington	37.4	28.3	9.2	50.7	10.1	40.6

a. Does not include electric generation. See Table 6-13.
b. Less than 0.05 trillion Btu.

CHART 6-1

GAS UTILITY SALES BY CLASS OF SERVICE
(QUADRILLIONS OF BTU)



REFERENCE: TABLE 6-1

TABLE 6-4
GAS UTILITY INDUSTRY TOTAL SALES AND TRANSPORTATION VOLUMES, BY MONTH, 1973-1992

(Trillions of Btu)

Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
1973	1,909.4	1,752.8	1,645.3	1,500.1	1,332.1	1,143.8	1,104.8	1,069.0	1,063.1	1,136.5	1,306.7	1,516.3	16,479.9
1974	1,847.6	1,707.2	1,630.7	1,493.6	1,251.6	1,119.9	1,050.8	1,034.9	992.3	1,115.2	1,219.8	1,536.7	16,000.3
1975	1,709.5	1,633.6	1,588.4	1,455.3	1,120.8	944.8	924.7	934.8	935.4	1,009.2	1,102.8	1,503.6	14,862.9
1976	1,797.5	1,644.6	1,451.0	1,252.2	1,099.8	965.6	913.1	900.8	899.1	996.4	1,278.3	1,614.7	14,813.5
1977	1,901.9	1,682.7	1,425.7	1,168.4	974.8	904.5	875.8	866.5	860.7	976.7	1,153.5	1,549.8	14,340.9
1978	1,808.7	1,834.1	1,647.5	1,237.7	1,061.4	921.4	895.1	878.8	839.6	947.7	1,151.1	1,525.5	14,748.4
1979	1,925.1	1,923.8	1,630.5	1,356.3	1,074.6	934.9	903.7	920.9	891.3	1,038.9	1,253.4	1,587.0	15,440.4
1980	1,834.6	1,871.4	1,728.3	1,315.2	1,024.3	919.0	928.2	918.9	906.2	1,024.5	1,287.0	1,655.6	15,413.2
1981	1,957.1	1,759.8	1,595.3	1,274.3	1,107.4	1,003.2	957.9	933.2	901.8	1,044.8	1,235.1	1,604.9	15,374.8
1982	1,964.4	1,831.3	1,555.0	1,288.9	911.8	819.6	816.7	823.6	775.8	864.7	1,117.5	1,413.4	14,182.7
1983	1,619.9	1,513.6	1,305.7	1,189.1	906.1	740.7	728.5	762.7	729.3	809.6	1,029.7	1,522.6	12,857.5
1984	1,907.9	1,532.8	1,477.5	1,172.3	912.8	736.0	739.9	736.2	706.8	812.5	1,054.5	1,372.5	13,161.7
1985	1,705.5	1,729.3	1,326.9	1,013.5	736.4	691.3	699.9	716.0	666.0	784.5	1,001.6	1,544.3	12,615.2
1986	1,649.9	1,428.7	1,228.3	892.5	709.4	602.0	574.2	568.4	571.6	663.4	926.2	1,310.5	11,125.1
1987	1,499.2	1,316.5	1,155.5	926.0	630.5	520.3	531.6	586.2	518.8	704.2	878.4	1,276.2	10,543.4
1988	1,633.2	1,462.6	1,178.1	830.0	606.5	513.7	543.4	604.8	528.0	671.3	889.7	1,244.0	10,705.3
1989	1,361.0	1,416.3	1,265.7	851.3	604.8	474.6	507.3	519.8	471.4	694.9	901.3	1,482.7	10,551.1
1990[a]													
Sales	1,437.5	1,167.7	1,055.7	824.7	598.9	483.2	478.1	523.3	498.1	635.5	834.6	1,304.5	9,841.8
Transportation Volumes	331.1	310.0	334.9	360.7	355.5	381.4	364.9	374.9	373.8	393.3	366.1	361.9	4,308.6
1991[R]													
Sales	1,512.9	1,192.0	1,075.6	763.0	551.9	434.0	472.3	438 8	448.2	617.9	900.7	1,194.3	9,601.4
Transportation Volumes	457.3	398.5	395.8	411.6	395.2	386.1	430.2	442.7	450.9	488.0	456.0	479.4	5,191.7
1992													
Sales	1,395.3	1,194.1	1,070.8	834.4	575.9	458.3	431.0	441.8	462.6	700.9	996.6	1,344.8	9,906.5
Transportation Volumes	463.8	470.0	471.4	448.3	425.5	397.2	427.5	424.2	407.6	397.1	441.8	469.0	5,243.4

a. 1990 is the first year Transportation Volumes are reported.
R–Revised.

TABLE 6-9
GAS UTILITY INDUSTRY DELIVERIES TO END USERS BY STATE AND CLASS OF SERVICE, 1992[a]

State/Region	Total	Residential	Commercial	Industrial	Electric Generation	Other
United States	**15,149.9**	**4,730.8**	**2,638.3**	**5,749.6**	**1,601.1**	**430.1**
New England	**494.9**	**185.1**	**117.0**	**104.6**	**81.9**	**6.2**
Connecticut	113.8	42.0	29.9	36.6	3.4	1.9
Maine	5.1	0.9	2.2	2.0	0.0	0.0
Massachusetts	267.5	113.2	68.4	49.2	33.3	3.4
New Hampshire	19.6	6.3	5.3	6.7	0.5	0.7
Rhode Island	80.9	19.9	9.4	7.5	43.9	0.2
Vermont	8.0	2.8	1.7	2.6	0.8	b
Middle Atlantic	**1,975.2**	**854.3**	**423.2**	**529.0**	**122.9**	**45.9**
New Jersey	533.7	200.2	136.0	140.1	57.1	0.3
New York	795.1	380.4	168.4	157.3	51.0	38.0
Pennsylvania	646.4	273.7	118.8	231.6	14.7	7.6
East North Central	**3,376.5**	**1,466.2**	**713.1**	**1,174.1**	**13.2**	**9.8**
Illinois	955.4	465.1	218.0	264.1	7.0	1.3
Indiana	471.7	155.3	71.2	243.4	0.4	1.4
Michigan	822.0	366.7	177.3	273.1	4.7	0.1
Ohio	797.0	354.6	167.3	267.7	0.6	6.7
Wisconsin	330.4	124.5	79.2	125.8	0.6	0.3
West North Central	**1,095.8**	**445.0**	**288.0**	**332.2**	**14.0**	**16.5**
Iowa	220.7	75.6	46.0	94.7	3.4	1.0
Kansas	191.0	73.2	47.2	55.4	3.4	11.8
Minnesota	295.1	115.0	70.8	107.1	1.4	0.8
Missouri	233.8	118.0	74.2	38.9	1.7	1.0
Nebraska	103.5	42.1	32.0	25.9	3.3	0.2
North Dakota	26.3	10.1	10.7	4.3	b	1.3
South Dakota	25.4	10.9	7.2	5.9	0.8	0.5
South Atlantic	**1,378.7**	**378.0**	**283.9**	**627.4**	**80.1**	**9.3**
Delaware	30.6	8.5	5.1	16.6	0.4	b
District of Columbia	32.4	12.5	19.9	0.0	0.0	0.0
Florida	210.4	17.7	45.2	86.1	53.6	7.8
Georgia	320.5	107.0	53.4	158.7	1.2	0.1
Maryland	177.5	69.7	41.3	59.0	7.4	0.1
North Carolina	177.3	44.1	33.9	95.9	3.2	b
South Carolina	130.8	23.2	17.4	88.7	0.5	1.0
Virginia	177.0	56.8	51.7	59.2	9.3	0.1
West Virginia	122.2	38.5	16.0	63.2	4.4	0.1
East South Central	**818.9**	**194.6**	**125.7**	**395.7**	**39.6**	**63.3**
Alabama	236.7	50.3	32.7	128.6	0.3	24.8
Kentucky	183.3	64.7	30.7	83.3	0.0	4.5
Mississippi	171.0	26.5	14.9	60.3	39.0	30.3
Tennessee	227.9	53.1	47.4	123.5	0.3	3.6
West South Central	**3,258.5**	**368.2**	**222.4**	**1,699.6**	**753.6**	**214.7**
Arkansas	109.0	40.4	25.4	42.6	0.2	0.4
Louisiana	841.4	55.9	21.2	452.0	158.8	153.5
Oklahoma	359.0	66.5	34.6	191.4	62.1	4.4
Texas	1,949.1	205.4	141.1	1,013.6	532.5	56.5
Mountain	**716.6**	**266.7**	**180.0**	**199.9**	**60.8**	**9.3**
Arizona	75.5	28.8	25.5	12.6	6.7	1.9
Colorado	215.6	96.9	64.7	50.5	3.1	0.3
Idaho	46.6	9.7	6.8	30.1	0.0	b
Montana	45.6	19.5	12.4	12.5	0.1	1.1
Nevada	77.3	18.9	16.6	6.3	35.2	0.4
New Mexico	93.8	33.4	22.6	17.3	15.0	5.5
Utah	122.9	48.1	23.0	51.1	0.7	b
Wyoming	39.3	11.4	8.3	19.5	0.0	0.1
Pacific	**2,034.8**	**572.6**	**285.0**	**687.1**	**435.0**	**55.1**
Alaska	39.6	14.3	11.4	0.0	13.9	0.1
California	1,717.1	490.6	213.8	554.0	404.0	54.7
Hawaii	3.4	0.6	1.6	1.2	0.0	0.0
Oregon	112.7	23.9	19.8	55.8	13.2	0.0
Washington	162.0	43.2	38.4	76.1	3.9	0.4

a. Represents both sales and transportation volumes delivered to end users from local distribution companies, interstate and intrastate gas pipeline companies.

b. Less than 0.05 trillion Btu.

TABLE 6-12
GAS CONSUMED FOR ELECTRIC GENERATION,[a] BY STATE, 1975-1992

(Millions of Cubic Feet)

Division and State	1975	1980	1985	1989	1990	1991R	1992
United States	**3,146,874**	**3,681,595**	**3,044,083**	**2,787,012**	**2,787,332**	**2,789,014**	**2,765,063**
New England	**2,523**	**7,001**	**49,346**	**53,949**	**66,238**	**46,564**	**42,225**
Connecticut	344	0	1,559	3,294	4,843	4,702	2,100
Maine	0	0	0	0	0	0	0
Massachusetts	1,437	5,083	45,161	48,448	55,226	38,133	38,340
New Hampshire	177	0	67	23	0	0	515
Rhode Island	11	1,679	2,532	2,147	5,485	1,638	469
Vermont	555	239	95	37	685	1,091	801
Middle Atlantic	**23,436**	**206,769**	**235,563**	**241,435**	**273,242**	**275,551**	**250,602**
New Jersey	8,601	79,513	61,362	55,412	47,625	61,874	38,772
New York	13,613	124,391	172,631	182,000	223,253	211,640	208,731
Pennsylvania	1,213	2,865	1,570	4,022	2,364	2,037	3,100
East North Central	**118,394**	**65,883**	**19,141**	**32,883**	**42,355**	**52,588**	**47,432**
Illinois	34,176	19,165	5,881	6,967	9,089	12,866	9,290
Indiana	10,994	1,904	1,117	4,075	6,632	10,043	7,771
Michigan	47,151	26,368	10,126	18,782	22,999	23,736	24,830
Ohio	6,139	4,706	699	983	1,254	3,237	2,956
Wisconsin	19,935	13,740	1,317	2,076	2,381	2,706	2,584
West North Central	**264,825**	**143,387**	**27,333**	**29,948**	**43,441**	**62,239**	**25,498**
Iowa	46,929	6,835	2,100	2,402	3,478	3,671	2,268
Kansas	127,818	101,022	21,181	19,152	27,197	36,122	14,034
Minnesota	22,709	8,077	1,275	4,427	5,231	5,870	4,895
Missouri	26,320	15,329	1,466	1,242	3,532	12,709	2,351
Nebraska	37,659	11,850	1,284	2,593	3,766	3,689	1,903
North Dakota	157	15	2	1	2	1	1
South Dakota	3,232	259	26	132	235	177	46
South Atlantic	**199,105**	**191,409**	**177,934**	**222,979**	**235,504**	**255,024**	**238,334**
Delaware	1,697	6,999	7,266	7,999	10,776	14,354	8,384
District of Columbia	0	0	0	0	0	0	0
Florida	141,153	166,047	165,683	186,814	189,148	201,319	202,565
Georgia	40,282	3,666	885	684	1,932	838	1,094
Maryland	451	5,230	1,372	19,184	17,536	16,059	10,200
North Carolina	101	1,702	595	1,673	2,461	3,020	3,159
South Carolina	14,566	5,418	483	2,705	6,975	9,823	1,795
Virginia	496	2,285	1,528	3,796	6,537	9,471	10,936
West Virginia	358	62	122	124	139	140	201
East South Central	**37,774**	**99,461**	**55,779**	**47,033**	**70,106**	**66,928**	**58,121**
Alabama	5,994	1,382	1,078	1,760	4,090	4,081	3,406
Kentucky	272	1,902	1,121	328	283	227	269
Mississippi	31,507	95,073	53,579	44,927	65,168	62,409	54,155
Tennessee	0	1,104	0	18	565	211	291
West South Central	**2,042,085**	**2,243,820**	**1,694,726**	**1,476,260**	**1,477,171**	**1,454,413**	**1,400,278**
Arkansas	31,818	58,863	11,411	29,462	32,090	27,903	27,015
Louisiana	356,130	424,991	285,039	244,984	268,740	254,245	254,895
Oklahoma	300,848	329,940	200,686	178,021	168,960	167,214	150,764
Texas	1,353,290	1,430,026	1,197,590	1,023,793	1,007,381	1,005,051	967,603
Mountain	**164,636**	**175,032**	**83,716**	**110,815**	**80,924**	**84,369**	**89,873**
Arizona	17,693	49,699	41,731	50,807	24,278	23,282	30,939
Colorado	52,930	31,928	4,913	8,375	5,485	5,715	5,212
Idaho	18	46	24	0	0	0	0
Montana	1,059	4,182	468	336	418	268	220
Nevada	25,152	27,541	8,080	23,210	24,348	21,738	24,355
New Mexico	64,239	56,280	28,133	27,365	25,420	28,100	22,487
Utah	2,725	5,133	235	636	907	5,190	6,576
Wyoming	819	222	132	85	69	76	83
Pacific	**294,105**	**548,833**	**700,545**	**517,708**	**498,349**	**491,339**	**612,700**
Alaska	19,619	28,763	34,194	32,746	34,366	31,330	28,618
California	274,483	518,808	666,274	517,700	456,406	449,014	564,432
Hawaii	0	0	0	0	0	0	0
Oregon	3	321	0	12,942	7,386	10,856	14,264
Washington	0	941	77	8,320	191	139	5,385

a. Includes direct sales by producers to electric utilities as well as sales by the gas utility industry.

R–Revised.

Source: U.S. Department of Energy, Energy Information Administration, *Electric Power Monthly*, December 1992.

TABLE 6-13
GAS UTILITY INDUSTRY GAS USED FOR ELECTRIC GENERATION, 1968-1992[a]

(Trillions of Btu)

	Sales					
	Industrial[b]					Total Sales and
Year	Firm	Interruptible	Other	Total Sales	Transfers[c]	Transfers
1968	1,489.6		381.3	1,870.9	270.9	2,141.8
1969	1,643.9		360.8	2,004.7	232.6	2,237.3
1970	1,877.5		427.5	2,305.0	283.6	2,588.6
1971	853.6	1,083.6	483.4	2,420.6	595.2	3,015.9
1972	956.5	858.4	553.3	2,368.4	549.5	2,917.9
1973	542.8	871.6	511.4	1,925.8	477.2	2,403.0
1974	497.2	812.5	387.9	1,697.6	419.8	2,117.4
1975	374.5	623.4	385.8	1,383.6	301.6	1,685.2
1976	478.1	889.5	d	1,367.6	250.9	1,618.5
1977	489.1	959.6	d	1,448.7	241.1	1,689.8
1978	544.2	854.0	d	1,398.2	187.9	1,586.1
1979	665.2	980.0	d	1,645.2	335.0	1,980.2
1980	971.9	1,137.7	d	2,109.6	411.1	2,520.7
1981	997.9	1,264.3	d	2,262.2	343.8	2,606.1
1982	775.8	1,157.6	d	1,933.4	367.9	2,301.3
1983	632.2	973.3	d	1,605.5	368.3	1,973.8
1984	670.5	1,079.5	d	1,750.0	405.8	2,155.8
1985	835.4	1,113.3	d	1,948.7	364.5	2,313.2
1986	681.0	766.1	d	1,447.1	315.3	1,762.4
1987	581.7	927.3	d	1,509.0	395.2	1,904.2
1988	455.4	880.5	d	1,335.9	337.7	1,673.6
1989	450.8	829.4	d	1,280.2	372.3	1,652.5
1990	458.6	661.5	d	1,120.1	400.0	1,520.1
1991	480.4	408.0	d	888.4	397.3	1,285.7
1992	464.4	348.3	d	812.7	368.9	1,181.5

a. Excludes direct sales by producers to electric utilities.
b. No breakdown available prior to 1971.
c. Represents transfers by the gas department to the electric department of combination gas and electric companies.
d. Other now included with Industrial to conform to the definition of industrial services.

TABLE 6-14
GAS UTILITY INDUSTRY GAS USED FOR ELECTRIC GENERATION, BY STATE, 1992[a]

(Trillions of Btu)

Division and State	Industrial Sales Firm	 Interruptible	 Total	Transfers[b]	Total Sales and Transfers
United States	**464.4**	**348.3**	**812.7**	**368.9**	**1,181.5**
New England	**3.9**	**16.5**	**20.4**	**0.0**	**20.4**
Connecticut	c	0.8	0.8	0.0	0.8
Maine	0.0	0.0	0.0	0.0	0.0
Massachusetts	3.9	11.4	15.3	0.0	15.3
New Hampshire	0.0	0.5	0.5	0.0	0.5
Rhode Island	0.0	3.0	3.0	0.0	3.0
Vermont	0.0	0.8	0.8	0.0	0.8
Middle Atlantic	**7.7**	**37.7**	**45.4**	**205.1**	**250.5**
New Jersey	7.5	22.2	29.7	30.9	60.5
New York	0.2	15.5	15.7	174.2	189.9
Pennsylvania	0.1	0.0	0.1	0.0	0.1
East North Central	**1.2**	**1.2**	**2.4**	**2.7**	**5.0**
Illinois	0.6	0.3	0.8	1.4	2.2
Indiana	c	c	c	1.1	1.1
Michigan	0.1	0.2	0.3	c	0.3
Ohio	0.2	0.4	0.6	0.0	0.6
Wisconsin	0.3	0.3	0.6	0.2	0.8
West North Central	**2.1**	**2.1**	**4.1**	**3.9**	**7.9**
Iowa	0.1	0.6	0.7	0.4	1.1
Kansas	1.2	0.1	1.2	0.0	1.2
Minnesota	0.4	0.8	1.1	2.4	3.5
Missouri	0.1	0.1	0.3	1.1	1.4
Nebraska	0.3	0.4	0.6	0.0	0.6
North Dakota	0.0	c	c	c	c
South Dakota	0.0	0.1	0.1	c	0.1
South Atlantic	**7.7**	**20.3**	**28.1**	**10.5**	**38.7**
Delaware	0.4	0.0	0.4	5.6	6.0
District of Columbia	0.0	0.0	0.0	0.0	0.0
Florida	3.6	7.8	11.4	0.0	11.4
Georgia	0.0	1.2	1.2	0.0	1.2
Maryland	0.0	7.4	7.4	3.8	11.3
North Carolina	0.0	2.8	2.8	0.0	2.8
South Carolina	0.0	0.4	0.4	1.1	1.6
Virginia	0.0	c	c	0.0	c
West Virginia	3.7	0.7	4.4	0.0	4.4
East South Central	**10.9**	**0.3**	**11.2**	**c**	**11.2**
Alabama	c	0.1	0.1	0.0	0.1
Kentucky	0.0	0.0	0.0	c	c
Mississippi	10.9	0.2	11.1	0.0	11.1
Tennessee	0.0	c	c	0.0	c
West South Central	**405.5**	**120.2**	**525.6**	**125.7**	**651.4**
Arkansas	0.0	0.0	0.0	0.0	0.0
Louisiana	6.6	25.6	32.2	24.4	56.6
Oklahoma	11.8	0.3	12.1	72.1	84.2
Texas	387.1	94.3	481.4	29.2	510.6
Mountain	**20.3**	**0.2**	**20.6**	**21.0**	**41.5**
Arizona	4.1	c	4.1	0.0	4.1
Colorado	1.2	0.2	1.4	1.8	3.2
Idaho	0.0	0.0	0.0	0.0	0.0
Montana	0.0	c	c	0.1	0.1
Nevada	0.2	0.0	0.2	19.1	19.3
New Mexico	14.8	0.0	14.8	0.0	14.8
Utah	0.0	c	c	0.0	c
Wyoming	0.0	0.0	0.0	0.0	0.0
Pacific	**5.1**	**149.8**	**154.9**	**0.0**	**154.9**
Alaska	5.0	0.0	5.0	0.0	5.0
California	0.0	149.7	149.7	0.0	149.7
Hawaii	0.0	0.0	0.0	0.0	0.0
Oregon	0.0	0.0	0.0	0.0	0.0
Washington	0.1	0.1	0.2	0.0	0.2

a. Excludes direct sales by producers to electric utilities.

b. Volumes transferred by the gas department to the electric department of combination gas and electric companies.

c. Less than 0.05 trillion Btu.

TABLE 6-15
TOTAL LIQUEFIED PETROLEUM GAS SALES BY CONSUMING SECTOR
1971-1991[a]

(Trillions of Btu)

Year	Total	Sector			
		Residential	Commercial	Industrial	Transportation
1971	1,722.9	585.4	103.3	983.9	50.3
1972	1,954.6	628.0	110.8	1,163.9	51.9
1973	1,980.7	594.8	105.0	1,232.7	48.3
1974	1,913.8	545.9	96.3	1,227.3	44.3
1975	1,807.1	527.8	93.1	1,144.5	41.7
1976	1,907.3	549.2	96.9	1,215.7	45.5
1977	1,907.9	533.5	94.1	1,232.4	47.9
1978	1,891.9	516.4	91.1	1,232.9	51.5
1979	2,138.1	354.8	62.6	1,699.9	20.8
1980	1,976.0	325.1	57.4	1,576.6	16.9
1981	1,948.9	310.9	54.9	1,550.9	32.2
1982	1,978.4	296.1	52.3	1,598.0	32.1
1983	1,990.2	352.4	62.2	1,537.5	38.1
1984	2,071.2	379.0	66.9	1,585.3	40.1
1985	2,102.7	422.5	74.6	1,578.0	27.7
1986	2,009.5	413.0	72.9	1,497.7	25.9
1987	2,152.5	421.5	74.4	1,636.0	20.6
1988	2,213.4	454.4	80.2	1,656.5	22.2
1989	2,242.7	504.7	89.1	1,627.1	21.6
1990	2,058.9	365.0	64.4	1,607.7	21.8
1991	2,227.3	389.5	68.7	1,749.2	19.9

a. Liquefied petroleum gases include ethane, ethylene, propane, propylene, butane, butylene, butane-propane mixture, ethane-propane mixture, and isobutane. The 1979-1989 LPG data may not be directly comparable to the pre-1979 data due to modifications to the LPG sales survey form and an updated sampling frame.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Reports*.

SECTION 7
REVENUES

	1992	% Change 92/91
Gas Utility Industry		
(Thousands)		
Total Revenues (From sales)	$46,178,067	+ 3.4
Residential	26,701,927	+ 3.8
Commercial	10,864,830	+ 1.8
Industrial	7,913,202	+ 4.4
Industrial Only	5,836,419	+ 9.6
Electric Generation	2,076,783	− 7.7
Other	698,108	+ 3.6
Resale	$11,050,971	− 7.2

TABLE 6-10
GAS UTILITY INDUSTRY COMMERCIAL AND OTHER GAS VOLUMES, BY TYPE OF INDUSTRY CLASSIFICATION AND BY DIVISION, 1992

(Trillions of Btu)

Industry Classification	Standard Industrial Classification	Total U.S.	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Agriculture, Forestry and Fishing	01-09	27.4	0.2	1.4	9.8	4.3	1.0	0.3	0.5	2.4	7.6
Mining[b]	10-14	1.5	0.1	0.2	0.6	0.2	a	a	0.1	0.2	0.1
Construction	15-17	12.4	0.4	1.5	4.4	1.4	1.1	0.5	0.6	1.5	1.1
Manufacturing[b]	20-39	104.1	2.9	30.0	27.7	5.5	9.6	1.5	2.4	3.7	20.8
Transportation	40-48	41.1	0.6	7.6	12.2	3.3	3.5	1.2	3.4	3.6	5.7
Utility Services other than Electric Generation	49	58.9	0.4	21.9	12.2	3.0	2.6	3.8	1.0	1.2	12.7
Wholesale Trade	50-51	42.9	0.8	4.7	14.8	4.2	4.4	1.3	2.6	2.9	7.2
Retail Trade	50-57, 59	83.1	1.9	14.5	26.9	8.1	9.0	2.8	3.7	6.9	9.2
Restaurants and Drinking Places	58	97.4	1.9	13.9	20.2	5.2	10.3	4.2	7.5	5.0	29.2
Finance and Insurance	60-64, 66, 67	15.9	0.5	2.6	4.7	1.6	1.2	0.6	1.4	1.4	2.0
Real Estate (Apartments)	65	164.4	2.8	36.4	41.5	11.9	23.0	1.4	16.2	17.5	13.7
Hotels & Other Lodging Places	70	42.0	0.5	6.5	7.6	2.7	5.1	1.4	3.5	4.6	10.1
Services	72-79	101.3	2.3	15.6	26.4	6.6	9.5	3.9	7.9	7.2	21.9
Health Services, Hospitals	80	118.0	2.9	19.0	30.7	9.4	16.8	5.9	8.1	4.2	21.0
Legal & Social Services	81, 83, 84	14.9	0.2	2.3	3.8	1.4	1.8	0.5	1.2	0.7	2.9
Education (Schools)	82	159.0	3.5	28.1	53.9	15.3	14.1	5.9	9.6	9.5	19.2
Membership Organizations & Miscellaneous Services	86-89	64.7	1.0	10.6	24.3	5.2	7.5	2.2	4.3	4.0	5.5
Public Administration	91-97	85.9	0.9	21.9	14.0	6.0	13.4	3.2	6.4	5.1	15.0
Non-Classifiable	99	71.7	1.0	10.2	2.8	20.3	13.3	0.0	0.4	14.9	8.7
Not Classified		1,761.8	98.3	220.3	384.7	189.0	146.0	148.5	356.4	92.8	126.3
Total Gas Utility Industry, Commercial & Other Sales & Transportation		**3,068.4**	**123.2**	**469.1**	**723.0**	**304.6**	**293.2**	**189.0**	**437.0**	**189.2**	**340.2**
Total Gas Utility Industry, Commercial & Other Sales & Transportation of Companies reporting this table		**1,847.7**	**40.0**	**356.8**	**559.2**	**173.1**	**205.1**	**71.9**	**109.2**	**99.2**	**233.1**

a. Less than 0.05 trillion Btu.

b. These groups are generally considered as industrial by the gas industry, but non-manufacturing uses such as those for office buildings and warehouses associated with manufacturing facilities are considered to be commercial.

TABLE 6-11

GAS UTILITY INDUSTRY INDUSTRIAL AND ELECTRIC GENERATION VOLUMES, BY TYPE OF INDUSTRY CLASSIFICATION AND BY DIVISION, 1992

(Trillions of Btu)

Industry Classification	Standard Industrial Classification	Total U.S.	New England	Middle Atlantic	East North Central	West North Central	South Atlantic	East South Central	West South Central	Mountain	Pacific
Agriculture, Forestry and Fishing[b]	01-09	17.9	0.0	0.3	3.7	3.9	0.1	0.6	3.3	1.4	4.5
Mining	10-14	129.7	0.0	1.6	3.8	1.0	0.3	0.4	2.2	5.0	115.5
Construction[b]	15-17	7.5	0.1	0.6	2.8	0.5	0.5	0.3	1.1	1.2	0.4
Food & Kindred Products	20	285.8	3.2	26.2	72.3	39.1	27.7	13.6	13.7	10.0	79.9
Tobacco Manufacturers	21	1.9	0.1	0.1	a	0.0	0.9	0.8	0.0	0.0	0.0
Textile Mill Products	22	78.4	6.9	6.5	2.0	0.1	50.4	5.8	0.7	0.1	5.8
Apparel & Other Textile Products	23	8.9	0.2	1.4	1.0	0.1	3.2	1.7	0.5	0.1	0.7
Lumber & Wood Products	24	36.4	0.1	1.6	3.4	3.0	1.9	1.1	3.6	6.7	14.9
Furniture & Fixtures	25	8.9	a	0.7	4.2	0.5	1.0	0.9	0.9	0.1	0.5
Paper & Allied Products	26	223.4	2.4	23.1	63.8	11.1	31.0	17.2	2.6	3.9	68.3
Printing & Publishing	27	17.4	0.3	2.7	6.6	0.9	3.4	1.1	0.7	0.2	1.5
Chemicals & Allied Products	28	294.3	1.9	34.8	82.1	17.2	81.3	17.0	14.0	17.1	29.0
Petroleum & Coal Products	29	179.3	0.1	7.0	37.6	2.0	6.9	12.0	7.6	11.3	94.7
Rubber & Miscellaneous Plastic Products	30	57.5	0.4	5.5	26.5	1.4	8.0	8.8	2.3	1.0	3.6
Leather & Leather Products	31	2.1	a	0.7	0.8	0.2	0.1	0.1	0.1	a	0.1
Stone, Clay, Glass & Concrete Products	32	212.0	1.9	33.0	54.0	8.2	58.2	13.6	3.9	7.4	31.8
Primary Iron & Steel	331-332	357.7	2.3	53.2	216.7	2.5	30.6	32.7	3.2	9.7	6.8
Primary Nonferrous Metals	333-339	131.4	1.5	10.6	73.5	5.7	5.5	10.9	0.0	11.3	12.5
Fabricated Metal Products	34	106.9	2.0	14.3	51.9	4.1	6.4	9.5	6.6	0.9	11.1
Machinery, Except Electrical	35	55.6	1.4	12.3	25.3	2.9	4.9	2.6	3.0	0.8	2.5
Electric & Electronic Equipment	36	48.3	0.6	11.3	17.1	2.1	6.5	4.3	2.3	0.5	3.6
Transportation Equipment	37	92.5	1.5	4.7	62.1	1.0	6.9	4.9	2.3	2.6	6.6
Instruments & Related Products	38	10.9	0.6	3.8	2.1	0.4	1.4	0.9	0.4	0.1	1.1
Other Manufacturing	39	20.3	1.0	4.7	6.0	1.5	1.3	2.1	0.5	1.5	1.6
Transportation[b]	40-48	19.7	a	13.5	1.9	1.8	0.4	a	0.4	0.5	1.1
Utility Services other than Electric Generation[b]	49	153.3	1.7	28.9	9.3	4.8	17.7	a	0.2	3.0	87.7
Electric Generation[c]	491, 493	1,601.1	81.9	122.9	13.3	14.0	80.1	39.6	753.6	60.8	435.0
Not Classified		3,191.6	74.4	225.9	343.6	216.3	271.1	232.9	1,623.6	103.6	101.0
Total Gas Utility Industry, Industrial & Electric Generation Sales & Transportation		**7,350.7**	**186.5**	**651.9**	**1,187.4**	**346.2**	**707.5**	**435.3**	**2,453.2**	**260.8**	**1,122.1**
Total Gas Utility Industry, Industrial & Electric Generation Sales & Transportation of Companies reporting this table		**3,715.6**	**42.7**	**478.1**	**999.2**	**212.3**	**414.4**	**169.4**	**276.0**	**127.6**	**995.8**
Transfers[c]		**368.9**	**0.0**	**205.1**	**2.7**	**3.9**	**10.6**	**a**	**125.7**	**21.0**	**0.0**

a. Less than 0.05 trillion Btu.

b. These groups are considered as commercial by the gas industry, but are repeated here because some companies still classify a portion of them as industrial.

c. Includes the quantities for electric generation detailed as "Transfers" which are not included in Total Industrial and Electric Generation sales of companies reporting this table or in Total Gas Utility Industry sales. Such quantities represent transfers by the gas department to the electric department of combination gas and electric companies.

REVENUES

TABLE 7-1
GAS UTILITY INDUSTRY REVENUES, BY CLASS OF SERVICE, 1968-1992

(Thousands)

Year	Total	Residential	Commercial	Industrial[a]	Other[a]
1968	$ 8,781,152	$ 4,567,307	$ 1,315,409	$ 2,675,261	$223,175
1969	9,479,566	4,883,029	1,459,054	2,918,973	218,510
1970	10,282,611	5,207,335	1,620,446	3,181,206	273,624
1971	11,357,392	5,635,395	1,829,309	3,568,582	324,106
1972	12,465,235	6,094,171	2,063,803	3,943,011	364,250
1973	12,987,272	6,246,988	2,172,460	4,196,714	371,110
1974	15,242,481	6,899,395	2,539,300	5,391,139	412,647
1975	19,101,498	8,445,484	3,302,669	6,745,171	608,174
1976	23,701,211	9,941,013	4,075,009	9,434,751	250,438
1977	28,303,200	11,540,805	4,979,890	11,454,675	327,830
1978	32,149,921	12,938,865	5,695,666	13,138,576	376,814
1979	38,947,143	14,832,950	6,623,766	17,044,820	445,607
1980	48,302,986	17,432,094	8,183,432	22,239,982	447,478
1981	56,109,859	19,180,238	9,285,549	27,123,865	520,207
1982	63,199,775	23,699,899	11,666,099	27,200,015	633,762
1983	65,836,669	26,173,122	12,658,718	26,314,873	689,956
1984	67,496,298	27,484,877	13,205,106	26,093,776	712,539
1985	63,292,552	26,864,099	12,722,134	23,085,833	620,486
1986	51,200,810	24,759,281	11,273,843	14,494,725	672,961
1987	45,491,823	23,622,262	10,271,485	11,068,424	529,652
1988	46,161,619	24,828,402	10,681,487	10,113,245	538,485
1989	47,493,381	26,171,772	11,074,360	9,665,710	581,539
1990	45,152,716	25,000,275	10,603,513	8,995,989	552,939
1991	44,647,379	25,728,572	10,668,880	7,576,238	673,689
1992	46,178,067	26,701,927	10,864,830	7,913,202	698,108

[a] Prior to 1976 "Other" electric generation (refer to Table 7-8) is included in the "Other" class of service. For 1976 and beyond all electric generation is included in the Industrial category.

TABLE 7-2
GAS UTILITY INDUSTRY REVENUES, BY QUARTER AND CLASS OF SERVICE
1975-1992

(Thousands)

Year and Quarter	Total	Residential	Commercial	Industrial[a]	Other[a]
1975					
First	$ 6,192,706	$ 3,303,345	$ 1,241,301	$ 1,507,088	$ 140,972
Second	4,449,583	1,972,484	734,977	1,625,673	116,449
Third	3,396,905	987,079	438,873	1,783,838	187,115
Fourth	5,062,304	2,182,576	887,518	1,828,572	163,638
1980					
First	16,451,183	7,338,136	3,246,038	5,698,318	168,691
Second	10,079,782	3,383,415	1,567,534	5,045,581	83,252
Third	8,578,869	1,785,894	1,036,782	5,690,536	65,657
Fourth	13,193,152	4,924,649	2,333,078	5,805,547	129,878
1984					
First	25,546,562	12,465,689	5,734,074	7,050,372	296,427
Second	14,279,409	5,321,699	2,579,755	6,245,386	132,569
Third	10,848,608	2,687,920	1,553,057	6,523,808	83,823
Fourth	16,821,719	7,009,569	3,338,220	6,274,210	199,720
1985					
First	24,901,945	12,459,204	5,675,345	6,517,019	268,377
Second	12,186,443	4,597,373	2,221,153	5,255,653	112,264
Third	9,790,920	2,658,158	1,468,241	5,591,635	72,886
Fourth	16,413,244	7,149,364	3,375,395	5,721,526	166,959
1986					
First	21,148,759	11,158,610	5,043,862	4,709,532	236,755
Second	9,938,670	4,385,310	1,991,030	3,404,542	157,788
Third	7,048,578	2,541,541	1,271,234	3,133,258	102,545
Fourth	13,064,803	6,673,820	2,967,717	3,247,393	175,873
1987					
First	17,935,993	10,321,003	4,365,609	3,038,548	210,833
Second	8,869,975	4,297,368	1,883,296	2,589,672	99,639
Third	6,453,192	2,469,925	1,207,333	2,704,286	71,648
Fourth	12,232,663	6,533,966	2,815,247	2,735,918	147,532
1988					
First	18,899,116	11,036,793	4,673,645	2,959,952	228,726
Second	8,363,074	4,295,351	1,856,494	2,118,607	92,622
Third	6,372,234	2,474,983	1,195,658	2,645,835	55,758
Fourth	12,527,195	7,021,275	2,955,690	2,388,851	161,379
1989					
First	18,659,001	11,204,648	4,648,133	2,592,213	214,007
Second	8,577,845	4,514,070	1,942,035	2,015,033	106,707
Third	6,389,446	2,646,433	1,231,401	2,427,560	84,052
Fourth	13,867,089	7,806,621	3,252,791	2,630,904	176,773
1990					
First	17,642,410	10,558,936	4,423,133	2,445,137	215,204
Second	8,490,358	4,571,565	1,954,459	1,863,474	100,860
Third	6,168,275	2,605,659	1,227,058	2,262,780	72,778
Fourth	12,851,673	7,264,115	2,998,863	2,424,598	164,097
1991					
First	18,137,526	11,031,335	4,584,540	2,270,143	251,508
Second	8,161,042	4,636,719	1,878,869	1,511,005	134,449
Third	5,838,313	2,790,490	1,247,202	1,693,371	107,250
Fourth	12,510,498	7,270,028	2,958,269	2,101,719	180,482
1992					
First	17,383,282	10,867,657	4,309,670	1,995,361	210,594
Second	8,443,369	4,806,026	1,998,771	1,504,491	134,081
Third	5,943,831	2,894,094	1,277,120	1,638,520	134,097
Fourth	14,407,585	8,134,150	3,279,269	2,774,830	219,336

[a] Prior to 1976 "Other" electric generation (see Table 7-8) is included in the "Other" class of service. For 1976 and beyond all electric generation is included in the Industrial category.

TABLE 7-3
GAS UTILITY INDUSTRY REVENUES, BY STATE
1975-1992[a]

(Thousands)

Division and State	1975	1980	1985	1989	1990	1991	1992
United States	**$19,101,498**	**$48,302,986**	**$63,292,552**	**$47,493,381**	**$45,152,716**	**$44,647,379**	**$46,178,067**
New England	**700,071**	**1,479,112**	**2,289,149**	**2,289,200**	**2,361,865**	**2,311,766**	**2,627,196**
Connecticut	178,480	366,348	572,431	581,681	611,334	604,857	699,429
Maine	5,983	11,156	19,318	21,541	26,183	24,999	28,199
Massachusetts	425,411	905,414	1,388,928	1,371,466	1,390,782	1,348,287	1,515,188
New Hampshire	17,190	40,569	71,173	94,345	93,585	85,992	102,785
Rhode Island	65,982	132,190	207,349	189,637	205,802	212,669	240,110
Vermont	7,025	23,435	26,843	30,530	34,179	34,962	41,485
Middle Atlantic	**2,940,846**	**6,603,468**	**9,466,303**	**8,303,016**	**8,010,522**	**7,922,476**	**8,901,650**
New Jersey	594,560	1,408,766	2,144.776	2,107,888	1,946,936	2,021,495	2,418,522
New York	1,248,149	2,663,655	4,198,569	3,643,381	3,647,473	3,504,408	3,915,947
Pennsylvania	1,098,137	2,531,047	3,122,958	2,551,747	2,416,113	2,396,573	2,567,181
East North Central	**5,033,327**	**11,584,266**	**15,254,866**	**11,037,604**	**9,817,766**	**9,921,252**	**10,291,661**
Illinois	1,504,405	3,588,046	4,546,146	3,120,482	2,870,658	2,782,089	2,853,493
Indiana	530,454	1,341,428	1,881,958	1,375,695	1,275,455	1,256,798	1,328,410
Michigan	1,269,106	2,602,792	3,779,438	2,557,720	2,197,694	2,258,181	2,332,506
Ohio	1,254,154	2,875,396	3,413,729	2,793,853	2,362,422	2,453,338	2,559,661
Wisconsin	475,208	1,176,604	1,633,595	1,189,854	1,111,537	1,170,846	1,217,591
West North Central	**1,585,864**	**3,778,158**	**5,272,430**	**3,748,283**	**3,538,598**	**3,634,330**	**3,599,134**
Iowa	311,364	718,370	998,934	667,565	613,422	627,418	640,825
Kansas	282,119	815,547	937,324	542,567	538,781	547,892	525,772
Minnesota	352,170	750,995	1,277,197	988,917	916,674	965,360	1,007,022
Missouri	406,752	992,492	1,277,040	980,129	933,854	921,891	883,121
Nebraska	169,010	356,352	536,737	388,285	365,223	389,560	362,688
North Dakota	31,037	77,168	119,167	85,690	78,796	86,311	82,895
South Dakota	33,412	67,234	126,031	95,130	91,848	95,898	96,811
South Atlantic	**1,538,752**	**4,112,603**	**5,787,396**	**4,989,394**	**4,779,749**	**4,428,115**	**4,810,413**
Delaware	33,229	78,336	124,740	106,782	101,249	89,849	104,929
District of Columbia	54,671	120,837	205,515	192,861	204,050	182,743	194,564
Florida	146,526	611,114	910,783	879,084	734,001	483,774	485,952
Georgia	349,550	950,915	1,436,103	1,149,412	1,091,467	1,067,621	1,119,250
Maryland	272,830	598,324	780,472	677,215	699,965	659,357	729,510
North Carolina	165,659	495,459	670,080	599,563	565,113	582,833	687,643
South Carolina	130,662	354,351	480,164	418,628	421,731	425,437	466,393
Virginia	206,109	482,080	736,868	672,269	632,831	636,162	692,002
West Virginia	179,516	421,187	442,671	298,973	329,342	300,339	330,170
East South Central	**775,705**	**2,306,090**	**2,846,738**	**2,036,260**	**1,948,024**	**1,997,515**	**2,122,641**
Alabama	237,710	698,762	860,907	539,890	542,008	550,327	577,293
Kentucky	199,738	509,455	694,725	518,960	462,656	499,467	533,106
Mississippi	134,730	517,786	554,370	330,926	298,757	288,753	309,930
Tennessee	203,527	580,087	736,736	646,484	644,603	658,968	702,312
West South Central	**2,953,148**	**8,951,915**	**9,062,862**	**5,665,556**	**5,446,851**	**5,379,858**	**5,729,389**
Arkansas	175,862	408,334	559,821	398,439	358,376	352,667	357,275
Louisiana	386.609	1.215.482	1.118,878	781,145	754,054	719,391	1,124,170
Oklahoma	328,817	965,728	982,583	642,968	632,842	646,000	563,563
Texas	2,061,860	6,362,371	6,401,580	3,843,004	3,701,579	3,661,800	3,684,381
Mountain	**920,668**	**2,393,490**	**3,050,419**	**2,252,709**	**2,159,991**	**2,276,727**	**2,144,145**
Arizona	171,773	384,777	573,729	443,244	380,157	395,054	359,285
Colorado	241,901	713,628	907,835	719,176	698,556	728,991	702,905
Idaho	75,818	182,600	171,432	78,362	75,200	90,266	84,935
Montana	82,021	163,917	204,292	157,929	151,127	154,823	143,018
Nevada	79,858	196,982	226,256	163,852	171,155	178,415	168,063
New Mexico	125,617	333,855	351,053	252,826	256,334	249,624	257,289
Utah	101,164	284,725	453,012	335,816	328,029	379,504	336,744
Wyoming	42,516	133,006	162,810	101,504	99,433	100,050	91,906
Pacific	**2,653,117**	**7,093,884**	**10,262,389**	**7,171,359**	**7,089,349**	**6,775,340**	**5,951,838**
Alaska	24,829	38,725	95,581	120,090	127,714	128,833	105,200
California	2,193,048	6,076,193	8,969,857	6,220,526	6,158,481	5,814,844	5,076,167
Hawaii	24,125	45,162	44,305	38,876	42,813	45,646	45,308
Oregon	156,703	354,502	432,989	268,661	281,840	302,718	273,600
Washington	254,412	579,302	719,657	523,206	478,501	483,299	451,563

a. Excludes revenues from sales for resale.

TABLE 7-4
GAS UTILITY INDUSTRY REVENUES FROM GAS FOR RESALE, BY STATE, 1975-1992

(Thousands)

Division and State	1975	1980	1985	1989	1990	1991	1992
United States	**$11,573,752**	**$37,900,088**	**$39,772,658**	**$17,277,914**	**$14,103,248**	**$11,903,626**	**$11,050,971**
New England	**382,550**	**851,449**	**1,196,319**	**756,898**	**656,991**	**506,368**	**521,122**
Connecticut	125,226	222,022	276,241	197,059	162,408	126,013	78,930
Maine	0	0	0	0	0	0	0
Massachusetts	216,069	529,965	770,323	458,342	409,888	315,625	404,340
New Hampshire	5,744	17,577	33,292	16,497	16,443	13,793	0
Rhode Island	34,645	81,885	116,463	85,000	68,252	50,937	37,852
Vermont	866	0	0	0	0	0	0
Middle Atlantic	**1,761,307**	**5,815,523**	**6,604,685**	**3,242,938**	**2,839,950**	**2,310,950**	**1,662,811**
New Jersey	365,302	1,250,773	1,500,354	866,174	707,220	639,368	467,523
New York	532,961	1,829,091	2,273,815	950,377	976,334	706,512	480,156
Pennsylvania	863,044	2,735,659	2,830,516	1,426,387	1,156,396	965,070	715,132
East North Central	**3,596,246**	**10,687,835**	**11,510,873**	**4,405,350**	**3,423,496**	**2,931,613**	**2,779,089**
Illinois	1,041,633	3,412,478	4,020,673	1,764,662	1,498,712	1,377,354	1,359,143
Indiana	292,665	988,871	1,310,034	700,045	617,558	513,507	462,226
Michigan	659,019	1,804,423	1,471,009	539,610	358,387	289,391	268,566
Ohio	1,144,706	3,145,106	3,199,641	785,065	507,352	259,495	265,051
Wisconsin	458,223	1,336,957	1,509,516	615,968	441,487	491,866	424,103
West North Central	**803,046**	**2,198,971**	**3,285,293**	**1,745,975**	**1,322,387**	**1,092,827**	**930,543**
Iowa	202,852	517,052	613,404	270,385	194,923	193,608	158,594
Kansas	89,538	265,146	380,686	223,306	191,157	192,771	185,131
Minnesota	178,677	554,425	885,481	409,231	312,779	149,836	101,688
Missouri	231,990	628,970	941,573	569,164	434,863	39[illegible]34	356,830
Nebraska	77,384	174,217	292,336	174,019	113,223	88,669	74,610
North Dakota	7,695	22,277	72,384	42,226	39,496	38,834	32,748
South Dakota	14,910	36,884	99,429	57,644	35,946	31,575	20,942
South Atlantic	**1,094,146**	**3,580,787**	**3,882,772**	**1,851,915**	**1,195,382**	**1,186,187**	**1,364,794**
Delaware	1,170	2,180	8,041	30,075	10,640	18,398	22,752
District of Columbia	0	0	0	0	0	0	0
Florida	54,786	218,749	304,365	251,792	228,379	153,776	105,288
Georgia	217,592	709,353	1,091,463	442,169	383,294	406,230	346,991
Maryland	159,003	480,609	484,449	254,300	52,418	100,991	155,063
North Carolina	96,134	440,145	520,029	118,202	128,358	113,397	136,292
South Carolina	86,854	313,732	344,559	241,157	146,806	121,317	121,567
Virginia	177,878	542,737	722,299	237,122	143,849	110,965	135,525
West Virginia	300,729	873,282	407,567	277,098	101,638	161,113	341,316
East South Central	**752,002**	**2,695,523**	**2,882,411**	**1,060,541**	**814,651**	**744,295**	**964,439**
Alabama	140,282	495,051	670,921	229,349	161,762	161,758	187,841
Kentucky	169,609	528,686	609,693	217,275	182,859	176,798	181,947
Mississippi	163,268	632,103	490,749	131,151	92,340	89,690	86,364
Tennessee	278,843	1,039,683	1,111,048	482,766	377,690	316,049	508,287
West South Central	**765,273**	**4,313,620**	**2,836,863**	**1,490,883**	**1,364,704**	**1,107,180**	**1,397,868**
Arkansas	9,328	25,469	37,353	21,401	14,265	18,729	14,813
Louisiana	354,067	1,383,886	966,312	527,045	473,682	187,648	199,908
Oklahoma	91,809	422,361	190,649	57,610	65,801	34,110	129,879
Texas	310,069	2,481,904	1,642,549	884,827	810,956	866,693	1,053,268
Mountain	**1,349,007**	**4,434,173**	**5,270,940**	**1,482,424**	**1,270,487**	**1,025,253**	**637,745**
Arizona	935,305	3,093,184	3,685,562	692,803	558,442	386,226	257
Colorado	163,200	657,917	706,735	435,650	400,358	368,031	287,157
Idaho	96,221	228,724	184,861	17,304	4,078	5,538	4,954
Montana	7,289	25,957	72,458	45,189	42,667	41,511	31,652
Nevada	12,147	36,042	51,030	38,326	28,916	13,794	0
New Mexico	34,447	111,849	112,829	40,367	28,600	8,894	132,488
Utah	3,113	15,333	277,426	180,592	177,618	172,881	147,595
Wyoming	97,285	265,167	180,039	32,193	29,808	28,378	33,642
Pacific	**1,070,175**	**3,322,207**	**2,302,502**	**1,240,990**	**1,215,200**	**998,953**	**792,560**
Alaska	0	22,677	0	0	0	0	0
California	294,546	1,199,764	572,465	268,474	214,592	135,972	72,681
Hawaii	0	0	0	0	0	0	0
Oregon	598,295	1,665,022	1,264,807	857,177	902,446	786,083	662,845
Washington	177,334	434,744	465,230	115,339	98,162	76,943	57,034

TABLE 7-5
GAS UTILITY INDUSTRY REVENUES, BY STATE AND CLASS OF SERVICE, 1992

(Thousands)

		Class of Service				
Division and State	Total	Residential	Commercial	Industrial	Electric Generation	Other
United States	**$46,178,067**	**$26,701,927**	**$10,864,830**	**$5,836,419**	**$2,076,783**	**$698,108**
New England	**2,627,196**	**1,478,931**	**746,300**	**320,963**	**54,454**	**26,548**
Connecticut	699,429	378,907	200,940	112,009	2,599	4,974
Maine	28,199	6,062	13,667	8,470	0	0
Massachusetts	1,515,188	878,859	428,478	153,280	39,460	15,111
New Hampshire	102,785	46,240	34,490	16,034	1,988	4,033
Rhode Island	240,110	150,168	57,537	22,399	8,706	1,300
Vermont	41,485	18,695	11,188	8,771	1,701	1,130
Middle Atlantic	**8,901,650**	**5,847,418**	**2,011,102**	**746,090**	**119,654**	**177,386**
New Jersey	2,418,522	1,347,851	681,510	308,033	80,138	990
New York	3,915,947	2,761,989	780,945	197,838	39,307	135,868
Pennsylvania	2,567,181	1,737,578	548,647	240,219	209	40,528
East North Central	**10,291,661**	**7,136,136**	**2,305,564**	**805,902**	**8,748**	**35,311**
Illinois	2,853,493	2,122,600	569,386	156,055	3,632	1,820
Indiana	1,328,410	822,801	311,356	188,997	156	5,100
Michigan	2,332,506	1,694,862	536,130	99,710	1,239	565
Ohio	2,559,661	1,773,304	620,969	136,682	1,958	26,748
Wisconsin	1,217,591	722,569	267,723	224,458	1,763	1,078
West North Central	**3,599,134**	**2,183,345**	**1,057,676**	**336,528**	**9,184**	**12,401**
Iowa	640,825	387,515	185,765	61,860	2,115	3,570
Kansas	525,772	339,832	152,504	29,525	2,292	1,619
Minnesota	1,007,022	557,072	291,032	154,019	2,375	2,524
Missouri	883,121	594,961	253,450	29,942	825	3,943
Nebraska	362,688	201,219	115,914	43,395	1,460	700
North Dakota	82,895	48,353	31,608	2,887	2	45
South Dakota	96,811	54,393	27,403	14,900	115	0
South Atlantic	**4,810,413**	**2,429,484**	**1,325,721**	**975,636**	**72,239**	**7,333**
Delaware	104,929	50,568	24,682	28,432	1,178	69
District of Columbia	194,564	89,422	105,142	0	0	0
Florida	485,952	142,695	209,536	99,506	30,783	3,432
Georgia	1,119,250	673,428	250,686	191,203	3,263	670
Maryland	729,510	436,276	172,838	102,397	17,797	202
North Carolina	687,643	274,082	154,665	250,796	7,652	448
South Carolina	466,393	161,381	99,098	203,058	1,174	1,682
Virginia	692,002	378,486	233,495	79,528	24	469
West Virginia	330,170	223,146	75,579	20,716	10,368	361
East South Central	**2,122,641**	**1,044,551**	**538,406**	**474,684**	**22,215**	**42,785**
Alabama	577,293	328,898	125,645	120,826	204	1,720
Kentucky	533,106	308,202	130,130	78,036	0	16,738
Mississippi	309,930	127,981	57,838	90,030	21,935	12,146
Tennessee	702,312	279,470	224,793	185,792	76	12,181
West South Central	**5,729,389**	**2,006,451**	**915,147**	**1,308,044**	**1,285,873**	**213,874**
Arkansas	357,275	203,221	99,307	53,602	0	1,145
Louisiana	1,124,170	307,659	101,457	500,082	66,465	148,507
Oklahoma	563,563	326,895	128,108	86,978	21,361	221
Texas	3,684,381	1,168,676	586,275	667,382	1,198,047	64,001
Mountain	**2,144,145**	**1,321,799**	**674,293**	**85,621**	**32,773**	**29,659**
Arizona	359,285	201,308	120,904	24,911	4,812	7,350
Colorado	702,905	434,794	255,592	8,869	2,668	982
Idaho	84,935	49,322	29,283	6,321	0	9
Montana	143,018	82,869	48,111	7,963	30	4,045
Nevada	168,063	102,486	61,183	10,747	859	1,536
New Mexico	257,289	155,236	51,563	1,999	24,317	15,426
Utah	336,744	243,842	73,737	19,040	87	38
Wyoming	91,906	51,942	33,920	5,771	0	273
Pacific	**5,951,838**	**3,253,812**	**1,290,621**	**782,951**	**471,643**	**152,811**
Alaska	105,200	54,242	38,520	0	12,333	105
California	5,076,167	2,839,089	1,000,996	627,061	457,599	151,422
Hawaii	45,308	10,265	18,022	17,021	0	0
Oregon	273,600	142,666	90,312	40,622	0	0
Washington	451,563	207,550	142,771	98,247	1,711	1,284

TABLE 7-6
GAS UTILITY INDUSTRY FIRM AND INTERRUPTIBLE GAS REVENUES, BY STATE, 1992

(Thousands)

	Commercial			Industrial[a]		
Division and State	Total	Firm	Interruptible	Total	Firm	Interruptible
United States	**$10,864,830**	**$9,926,333**	**$938,497**	**$5,836,419**	**$2,865,790**	**$2,970,629**
New England	**746,300**	**703,715**	**42,585**	**320,963**	**214,141**	**106,822**
Connecticut	200,940	173,527	27,413	112,009	72,282	39,727
Maine	13,667	13,667	0	8,470	5,676	2,794
Massachusetts	428,478	419,907	8,571	153,280	109,193	44,087
New Hampshire	34,490	34,445	45	16,034	11,335	4,699
Rhode Island	57,537	50,981	6,556	22,399	15,305	7,094
Vermont	11,188	11,188	0	8,771	350	8,421
Middle Atlantic	**2,011,102**	**1,919,677**	**91,425**	**746,090**	**420,295**	**325,795**
New Jersey	681,510	612,750	68,760	308,033	120,385	187,648
New York	780,945	773,761	7,184	197,838	134,642	63,196
Pennsylvania	548,647	533,166	15,481	240,219	165,268	74,951
East North Central	**2,305,564**	**2,278,586**	**26,978**	**805,902**	**622,233**	**183,669**
Illinois	569,386	567,371	2,015	156,055	137,068	18,987
Indiana	311,356	299,167	12,189	188,997	128,745	60,252
Michigan	536,130	536,130	0	99,710	94,424	5,286
Ohio	620,969	619,263	1,706	136,682	127,707	8,975
Wisconsin	267,723	256,655	11,068	224,458	134,289	90,169
West North Central	**1,057,676**	**1,000,585**	**57,091**	**336,528**	**156,699**	**179,829**
Iowa	185,765	170,120	15,645	61,860	38,413	23,447
Kansas	152,504	147,057	5,447	29,525	17,122	12,403
Minnesota	291,032	270,590	20,442	154,019	56,095	97,924
Missouri	253,450	248,399	5,051	29,942	19,998	9,944
Nebraska	115,914	107,383	8,531	43,395	16,624	26,771
North Dakota	31,608	30,096	1,512	2,887	197	2,690
South Dakota	27,403	26,940	463	14,900	8,250	6,650
South Atlantic	**1,325,721**	**1,198,946**	**126,775**	**975,636**	**502,245**	**473,391**
Delaware	24,682	24,682	0	28,432	23,192	5,240
District of Columbia	105,142	70,043	35,099	0	0	0
Florida	209,536	208,265	1,271	99,506	28,431	71,075
Georgia	250,686	249,936	750	191,203	82,977	108,226
Maryland	172,838	137,052	35,786	102,397	79,921	22,476
North Carolina	154,665	145,677	8.988	250,796	126,044	124,752
South Carolina	99,098	87,602	11,496	203,058	108,912	94,146
Virginia	233,495	204,601	28,894	79,528	41,137	38,391
West Virginia	75,579	71,088	4,491	20,716	11,631	9,085
East South Central	**538,406**	**519,962**	**18,444**	**474,684**	**331,934**	**142,750**
Alabama	125,645	118,511	7,134	120,826	72,343	48,483
Kentucky	130,130	129,303	827	78,036	49,394	28,642
Mississippi	57,838	56,371	1,467	90,030	85,340	4,690
Tennessee	224,793	215,777	9,016	185,792	124,857	60,935
West South Central	**915,147**	**909,554**	**5,593**	**1,308,044**	**457,506**	**850,538**
Arkansas	99,307	99,268	39	53,602	22,336	31,266
Louisiana	101,457	100,527	930	500,082	112,608	387,474
Oklahoma	128,108	125,273	2,835	86,978	49,910	37,068
Texas	586,275	584,486	1,789	667,382	272,652	394,730
Mountain	**674,293**	**669,503**	**4,790**	**85,621**	**65,477**	**20,144**
Arizona	120,904	119,383	1,521	24,911	23,549	1,362
Colorado	255,592	253,926	1,666	8,869	2,567	6,302
Idaho	29,283	29,283	0	6,321	5,437	884
Montana	48,111	48,083	28	7,963	6,449	1,514
Nevada	61,183	61,183	0	1,999	1,999	0
New Mexico	51,563	50,034	1,529	10,747	10,631	116
Utah	73,737	73,737	0	19,040	12,808	6,232
Wyoming	33,920	33,874	46	5,771	2,037	3,734
Pacific	**1,290,621**	**725,805**	**564,816**	**782,951**	**95,260**	**687,691**
Alaska	38,520	38,520	0	0	0	0
California	1,000,996	461,946	539,050	627,061	21,957	605,104
Hawaii	18,022	15,598	2,424	17,021	17,021	0
Oregon	90,312	90,312	0	40,622	27,006	13,616
Washington	142,771	119,429	23,342	98,247	29,276	68,971

a. Does not include electric generation.

TABLE 7-7
REVENUES FROM GAS UTILITY INDUSTRY DELIVERIES, BY STATE AND CLASS OF SERVICE,[a] 1992

(Thousands)

State/Region	Residential	Commercial	Industrial	Electric Generation	Other	Total
Total US	**$26,761,514**	**$11,246,111**	**$7,388,060**	**$2,406,787**	**$745,650**	**$48,548,122**
New England	**1,478,931**	**747,169**	**345,165**	**65,802**	**26,783**	**2,663,850**
Connecticut	378,907	201,686	118,522	3,163	4,974	707,252
Maine	6,062	13,667	8,470	0	0	28,199
Massachusetts	878,859	428,601	155,990	41,981	15,346	1,520,777
New Hampshire	46,240	34,490	30,725	1,988	4,033	117,476
Rhode Island	150,168	57,537	22,687	16,969	1,300	248,661
Vermont	18,695	11,188	8,771	1,701	1,130	41,485
Middle Atlantic	**5,850,769**	**2,092,726**	**963,631**	**141,963**	**185,551**	**9,234,640**
New Jersey	1,347,851	693,982	345,942	88,862	990	2,477,627
New York	2,762,797	813,681	272,768	47,894	143,759	4,040,899
Pennsylvania	1,740,121	585,063	344,921	5,207	40,802	2,716,114
East North Central	**7,180,841**	**2,479,968**	**1,227,804**	**12,920**	**35,311**	**10,936,844**
Illinois	2,163,863	673,475	287,992	5,784	1,820	3,132,934
Indiana	822,801	313,348	243,714	291	5,100	1,385,254
Michigan	1,698,205	569,464	204,015	3,124	565	2,475,373
Ohio	1,773,403	644,812	239,399	1,958	26,748	2,686,320
Wisconsin	722,569	278,869	252,684	1,763	1,078	1,256,963
West North Central	**2,183,345**	**1,083,282**	**405,875**	**12,638**	**15,918**	**3,701,058**
Iowa	387,515	186,084	86,818	2,937	3,570	666,924
Kansas	339,832	160,043	46,497	3,658	4,077	554,107
Minnesota	557,072	292,013	161,763	2,787	2,524	1,016,159
Missouri	594,961	264,256	43,031	1,179	4,041	907,468
Nebraska	201,219	118,506	46,922	1,907	700	369,254
North Dakota	48,353	34,567	5,707	2	727	89,356
South Dakota	54,393	27,813	15,137	168	279	97,790
South Atlantic	**2,429,484**	**1,337,290**	**1,113,474**	**94,645**	**8,978**	**4,983,871**
Delaware	50,568	24,682	32,314	1,178	69	194,792
District of Columbia	89,422	103,370	0	0	0	108,811
Florida	142,695	209,696	120,847	49,081	5,077	527,396
Georgia	673,428	254,609	230,683	3,263	670	1,162,653
Maryland	436,276	175,620	118,242	17,797	202	748,137
North Carolina	274,082	155,215	265,868	7,979	448	703,592
South Carolina	161,381	99,098	218,075	1,174	1,682	481,410
Virginia	378,486	235,153	91,293	267	469	705,668
West Virginia	223,146	77,847	36,152	13,906	361	351,412
East South Central	**1,044,551**	**545,331**	**562,357**	**27,327**	**54,766**	**2,234,332**
Alabama	328,898	131,775	151,775	205	7,416	620,069
Kentucky	308,202	130,772	107,427	0	16,738	563,139
Mississippi	127,981	57,976	94,590	26,980	18,431	325,958
Tennessee	279,470	224,808	208,565	142	12,181	725,166
West South Central	**2,006,499**	**924,792**	**1,505,820**	**1,334,744**	**236,395**	**6,008,250**
Arkansas	203,221	101,119	66,510	44	1,145	372,039
Louisiana	307,659	101,500	532,650	87,030	162,848	1,191,687
Oklahoma	326,895	130,912	145,698	41,931	572	646,008
Texas	1,168,724	591,261	760,962	1,205,739	71,830	3,798,516
Mountain	**1,321,799**	**685,605**	**139,336**	**46,194**	**29,691**	**2,222,625**
Arizona	201,308	122,924	30,569	5,513	7,350	367,664
Colorado	434,794	255,592	26,953	2,816	982	721,137
Idaho	49,322	29,283	18,993	0	9	97,607
Montana	82,869	48,551	10,114	105	4,072	145,711
Nevada	155,236	57,524	15,260	24,432	15,428	267,880
New Mexico	102,486	63,445	4,381	13,168	1,536	185,016
Utah	243,842	74,309	25,641	160	38	343,990
Wyoming	51,942	33,977	7,425	0	276	93,620
Pacific	**3,265,295**	**1,349,948**	**1,124,598**	**670,554**	**152,257**	**6,562,[illegible]2**
Alaska	54,242	38,520	0	16,099	105	108,966
California	2,850,572	1,059,337	933,358	649,195	150,868	5,643,330
Hawaii	10,265	18,022	17,021	0	0	45,308
Oregon	142,666	90,421	64,474	2,555	0	300,116
Washington	207,550	143,648	109,745	2,705	1,284	464,932

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[a] Represents the revenue from sales volumes and transportation fees generated by local distribution companies, interstate and intrastate gas pipeline companies.

TABLE 7-8
GAS UTILITY INDUSTRY REVENUES FROM GAS USED FOR ELECTRIC GENERATION, 1968-1992[a]

(Thousands)

	Revenue					
	Industrial[b]					
Year	Firm	Interruptible	Other	Total Revenue	Credits[c]	Total Revenue and Credits
1968	$ 380,995		$117,159	$ 498,154	$ 80,816	$ 578,970
1969	426,325		112,454	538,779	71,747	610,526
1970	520,882		137,553	658,435	92,443	750,878
1971	$ 237,111	$ 335,539	160,035	732,685	201,213	933,898
1972	277,344	294,885	201,865	774,094	193,655	967,749
1973	185,106	309,653	214,419	709,178	197,418	906,596
1974	271,516	395,889	225,124	892,529	269,148	1,161,677
1975	352,660	473,951	361,969	1,188,580	293,936	1,482,516
1976	594,784	1,075,885	d	1,670,669	315,935	1,986,604
1977	779,919	1,535,133	d	2,315,052	379,274	2,694,326
1978	953,406	1,452,434	d	2,405,840	330,572	2,736,412
1979	1,424,871	2,063,626	d	3,488,497	721,948	4,210,445
1980	2,411,369	3,181,089	d	5,592,458	1,157,694	6,750,152
1981	3,042,009	4,285,518	d	7,327,527	1,213,333	8,540,860
1982	3,075,361	4,832,346	d	7,907,707	1,321,944	9,229,651
1983	2,486,220	4,253,117	d	6,739,337	1,351,422	8,090,759
1984	2,536,993	4,852,280	d	7,389,273	1,481,561	8,870,834
1985	2,857,907	4,569,758	d	7,427,665	1,210,334	8,637,999
1986	1,805,826	2,143,185	d	3,949,011	728,024	4,677,035
1987	1,281,135	2,508,207	d	3,789,342	914,829	4,704,171
1988	1,090,680	2,309,596	d	3,400,276	761,842	4,162,118
1989	1,053,056	2,395,911	d	3,448,967	871,342	4,320,309
1990	1,056,566	1,905,850	d	2,962,416	930,490	3,892,906
1991	1,057,433	1,192,656	d	2,250,089	868,462	3,118,551
1992	1,099,665	976,927	d	2,076,592	877,494	2,954,086

a. Excludes revenues from direct sales by producers to straight electric utilities.
b. No breakdown available prior to 1971.
c. Represents "Revenues" from transfers of gas for electric generation. Such "Revenues" are credits by the electric department to the gas department of combination gas and electric companies.
d. Other now included with Industrial to conform to the definition of industrial services.

REVENUES

TABLE 7-9
GAS UTILITY INDUSTRY REVENUES, GAS USED FOR ELECTRIC GENERATION, BY STATE, 1992[a]

(Thousands)

Division and State	Industrial Revenue			Credits[b]	Total Revenue and Credits
	Firm	Interruptible	Total		
United States	**$1,099,665**	**$976,927**	**$2,076,592**	**$877,494**	**$2,954,086**
New England	**11,286**	**43,168**	**54,454**	**0**	**54,454**
Connecticut	71	2,528	2,599	0	2,599
Maine	0	0	0	0	0
Massachusetts	11,215	28,245	39,460	0	39,460
New Hampshire	0	1,988	1,988	0	1,988
Rhode Island	0	8,706	8,706	0	8,706
Vermont	0	1,701	1,701	0	1,701
Middle Atlantic	**24,593**	**95,061**	**119,654**	**542,586**	**662,240**
New Jersey	23,427	56,711	80,138	64,079	144,217
New York	957	38,350	39,307	478,507	517,814
Pennsylvania	209	0	209	0	209
East North Central	**5,376**	**3,372**	**8,748**	**8,420**	**17,168**
Illinois	2,757	875	3,632	2,739	6,371
Indiana	142	14	156	5,144	5,300
Michigan	544	695	1,239	11	1,250
Ohio	812	1,146	1,958	0	1,958
Wisconsin	1,121	642	1,763	526	2,289
West North Central	**4,006**	**4,987**	**8,993**	**7,491**	**16,484**
Iowa	449	1,666	2,115	1,172	3,287
Kansas	1,921	180	2,101	0	2,101
Minnesota	705	1,670	2,375	4,512	6,887
Missouri	503	322	825	1,728	2,553
Nebraska	428	1,032	1,460	0	1,460
North Dakota	0	2	2	17	19
South Dakota	0	115	115	62	177
South Atlantic	**21,358**	**50,881**	**72,239**	**27,094**	**99,333**
Delaware	1,178	0	1,178	14,058	15,236
District of Columbia	0	0	0	0	0
Florida	11,388	19,395	30,783	0	30,783
Georgia	0	3,263	3,263	0	3,263
Maryland	0	17,797	17,797	11,190	28,987
North Carolina	0	7,652	7,652	0	7,652
South Carolina	0	1,174	1,174	1,846	3,020
Virginia	0	24	24	0	24
West Virginia	8,792	1,576	10,368	0	10,368
East South Central	**21,439**	**776**	**22,215**	**67**	**22,282**
Alabama	7	197	204	0	204
Kentucky	0	0	0	67	67
Mississippi	21,432	503	21,935	0	21,935
Tennessee	0	76	76	0	76
West South Central	**966,921**	**318,952**	**1,285,873**	**254,890**	**1,540,763**
Arkansas	0	0	0	0	0
Louisiana	15,374	51,091	66,465	46,555	113,020
Oklahoma	20,318	1,043	21,361	151,946	173,307
Texas	931,229	266,818	1,198,047	56,389	1,254,436
Mountain	**32,281**	**492**	**32,773**	**36,946**	**69,719**
Arizona	4,785	27	4,812	0	4,812
Colorado	2,320	348	2,668	4,186	6,854
Idaho	0	0	0	0	0
Montana	0	30	30	319	349
Nevada	859	0	859	32,441	33,300
New Mexico	24,317	0	24,317	0	24,317
Utah	0	87	87	0	87
Wyoming	0	0	0	0	0
Pacific	**12,405**	**459,238**	**471,643**	**0**	**471,643**
Alaska	12,333	0	12,333	0	12,333
California	0	457,599	457,599	0	457,599
Hawaii	0	0	0	0	0
Oregon	0	0	0	0	0
Washington	72	1,639	1,711	0	1,711

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a. Excludes revenues from direct sales by producers to electric utilities.
b. Represents "Revenues" from transfers of gas for electric generation. Such "Revenues" are credits by the electric department to the gas department of combination gas and electric companies.

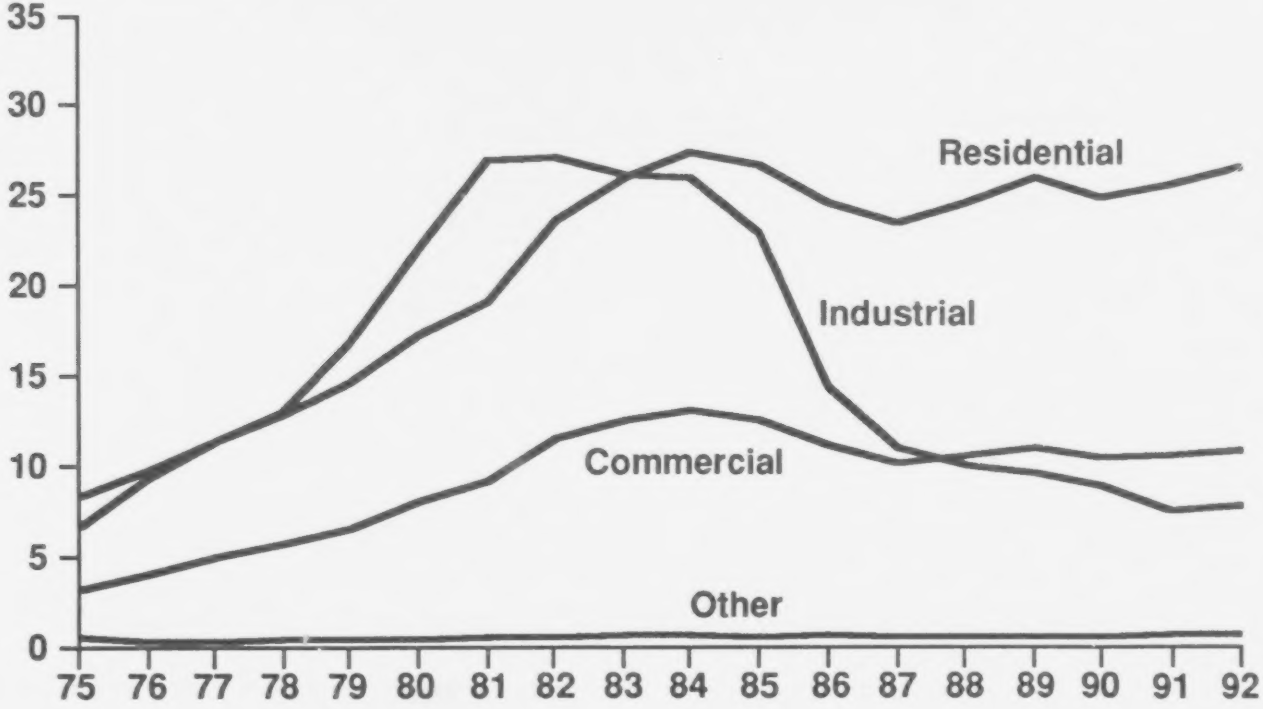
SECTION 8
CUSTOMERS

	Average Customers	
	1992	% Change 92/91
Gas Utility Industry		
(Thousands)		
Total	56,132.4	+ 1.7
Residential	51,524.6	+ 1.7
Commercial	4,396.9	+ 1.7
Industrial	164.8	− 1.7
Other	45.5	− 9.5

CHART 7-1

GAS UTILITY INDUSTRY REVENUES BY CLASS OF SERVICE

(BILLIONS OF DOLLARS)



REFERENCE: TABLE 7-1

TABLE 8-1
GAS UTILITY INDUSTRY CUSTOMERS, BY CLASS OF SERVICE, YEARLY AVERAGES, 1968-1992

(Thousands)

Year	Total	Residential	Commercial	Industrial[a]	Other[a]
1968	39,930.0	36,691.1	3,003.6	188.1	47.2
1969	40,854.0	37,538.3	3,073.8	192.7	49.2
1970	41,482.1	38,097.0	3,130.9	199.1	55.1
1971	42,241.9	38,788.7	3,199.0	204.7	49.5
1972	42,954.8	39,428.0	3,263.6	209.2	54.1
1973	43,711.2	40,115.5	3,331.4	209.1	55.2
1974	44,267.2	40,626.7	3,392.0	193.8	54.7
1975	44,554.5	40,950.3	3,366.9	183.5	53.8
1976	44,941.4	41,337.6	3,371.5	179.7	52.6
1977	45,274.0	41,682.4	3,371.0	173.3	47.3
1978	45,788.9	42,183.2	3,369.8[b]	189.2[b]	46.7
1979	46,478.3	42,821.3	3,422.8	189.4	44.8
1980	47,222.9	43,489.3	3,497.8	187.2	48.5
1981	47,947.5	44,149.4	3,564.5	187.2	46.5
1982	48,414.9	44,552.3	3,631.1	186.1	45.4
1983	48,799.2	44,893.8	3,676.3	182.2	46.8
1984	49,324.6	45,366.9	3,730.3	180.2	47.2
1985	49,970.7	45,928.7	3,815.7	179.0	47.3
1986	50,704.3	46,583.2	3,891.5[c]	177.6	52.0
1987	51,575.8	47,362.5	3,979.7	180.0	53.6
1988	52,421.5	48,132.6	4,069.2	167.6	52.1
1989	53,356.0	48,980.5	4,160.6	167.7	47.2
1990	54,261.3	49,801.6	4,245.9	166.0	47.8
1991	55,174.0	50,634.2	4,321.8	167.7	50.3
1992	56,132.3	51,524.6	4,396.9	165.3	45.5

[a] Prior to 1976, "Other" electric generation customers included in the "Other" class of service. For 1976 and beyond all electric generation customers included in the Industrial category.

[b] Reclassification of customers from commercial to industrial.

[c] Reclassification of customers from commercial to other.

CUSTOMERS

TABLE 8-2
GAS UTILITY INDUSTRY AVERAGE CUSTOMERS, BY QUARTER, 1975-1992

(Thousands)

Year and Quarter	Total	Residential	Commercial	Industrial[a]	Other[a]
1975					
First	44,762	41,099	3,406	194	63
Second	44,386	40,806	3,348	181	51
Third	44,233	40,686	3,322	177	48
Fourth	44,839	41,210	3,393	182	54
1980					
First	47,365	43,579	3,549	188	49
Second	47,197	43,452	3,509	187	49
Third	46,879	43,218	3,427	186	48
Fourth	47,450	43,708	3,506	187	49
1983					
First	49,089	45,127	3,731	184	47
Second	48,813	44,900	3,683	183	47
Third	48,348	44,512	3,609	181	46
Fourth	48,946	45,035	3,683	181	47
1984					
First	49,587	45,585	3,773	181	48
Second	49,322	45,363	3,732	180	47
Third	48,896	45,004	3,666	179	47
Fourth	49,494	45,516	3,751	180	47
1985					
First	50,244	46,147	3,868	181	48
Second	49,917	45,876	3,814	180	47
Third	49,567	45,595	3,747	178	47
Fourth	50,158	46,099	3,834	178	47
1987					
First	51,752	47,488	4,028	182	54
Second	51,603	47,374	3,995	181	53
Third	51,163	47,025	3,907	178	53
Fourth	51,786	47,564	3,989	179	54
1988					
First	52,601	48,259	4,119	169	54
Second	52,369	48,078	4,069	168	54
Third	52,035	47,817	4,000	167	51
Fourth	52,680	48,375	4,088	168	49
1989					
First	53,490	49,071	4,204	168	47
Second	53,321	48,941	4,166	168	46
Third	53,030	48,720	4,097	166	47
Fourth	53,583	49,190	4,177	168	48
1990					
First	54,382	49,881	4,285	168	48
Second	54,216	49,755	4,247	166	48
Third	53,939	49,542	4,185	164	48
Fourth	54,508	50,029	4,266	165	48
1991					
First	55,328	50,733	4,378	167	50
Second	55,129	50,589	4,325	165	50
Third	54,835	50,362	4,254	169	50
Fourth	55,403	50,852	4,330	171	50
1992					
First	56,254	51,590	4,451	167	46
Second	56,097	51,484	4,401	166	46
Third	55,826	51,289	4,328	164	45
Fourth	56,352	51,734	4,407	165	46

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[a] Prior to 1976, "Other" electric generation customers included in the "Other" class of service. For 1976 and beyond all electric generation customers included in the Industrial category.

TABLE 8-3
GAS UTILITY INDUSTRY AVERAGE CUSTOMERS, BY STATE, 1975-1992[a]

(Thousands)

Division and State	1975	1980	1985	1989	1990	1991	1992
United States	**44,554.5**	**47,222.9**	**49,970.7**	**53,356.0**	**54,261.3**	**55,174.0**	**56,132.3**
New England	**1,692.5**	**1,734.6**	**1,839.3**	**2,018.4**	**2,036.3**	**2,051.9**	**2,068.8**
Connecticut	392.5	405.0	433.0	471.9	476.0	477.6	480.1
Maine	18.1	15.0	15.2	16.1	16.3	1,237.7	17.5
Massachusetts	1,055.4	1,079.3	1,130.3	1,216.9	1,229.6	17.0	1,248.2
New Hampshire	45.4	50.9	57.9	82.9	76.3	77.9	79.6
Rhode Island	164.6	168.9	184.8	207.3	213.3	215.5	216.2
Vermont	16.6	15.4	18.0	23.3	24.9	26.2	27.3
Middle Atlantic	**8,230.3**	**8,111.4**	**8,362.7**	**8,787.6**	**8,899.5**	**8,961.5**	**9,063.4**
New Jersey	1,815.1	1,849.1	1,955.2	2,162.5	2,199.1	2,222.1	2,248.3
New York	4,102.5	3,925.5	4,023.5	4,155.8	4,202.0	4,216.0	4,272.0
Pennsylvania	2,312.7	2,336.8	2,384.0	2,469.3	2,498.4	2,523.4	2,543.1
East North Central	**10,253.1**	**10,775.6**	**11,618.7**	**11,816.0**	**12,001.5**	**12,173.4**	**12,342.1**
Illinois	3,134.2	3,304.2	3,355.8	3,506.5	3,548.4	3,584.0	3,625.8
Indiana	1,187.7	1,241.1	1,310.0	1,420.9	1,448.7	1,475.1	1,506.3
Michigan	2,234.5	2,443.3	2,550.9	2,732.6	2,779.0	2,818.0	2,851.6
Ohio	2,757.8	2,746.5	2,794.1	2,950.5	2,991.0	3,030.0	3,060.0
Wisconsin	939.0	1,040.5	1,108.1	1,205.5	1,234.4	1,266.3	1,298.6
West North Central	**3,820.4**	**4,126.5**	**4,373.4**	**4,641.9**	**4,705.5**	**4,770.2**	**4,852.6**
Iowa	691.6	745.4	764.2	781.3	789.6	798.5	812.2
Kansas	669.8	723.0	787.3	825.1	835.2	841.4	852.8
Minnesota	726.8	809.4	909.8	1,032.6	1,061.7	1,089.9	1,118.3
Missouri	1,167.1	1,218.4	1,241.0	1,308.6	1,317.0	1,330.6	1,349.1
Nebraska	400.5	442.4	466.3	480.7	484.8	488.6	493.6
North Dakota	71.3	85.7	94.6	97.2	98.4	100.0	101.9
South Dakota	93.1	102.4	110.1	116.4	118.8	121.2	124.7
South Atlantic	**3,861.9**	**4,042.2**	**4,404.6**	**4,869.0**	**4,991.0**	**5,144.0**	**5,331.9**
Delaware	82.8	81.5	85.2	93.7	96.6	147.9	102.4
District of Columbia	155.4	148.6	145.3	146.1	147.2	99.6	147.8
Florida	391.8	433.0	460.5	473.8	480.0	512.9	565.4
Georgia	912.3	1,025.9	1,195.6	1,381.7	1,412.3	1,442.2	1,489.3
Maryland	774.6	773.5	803.0	828.9	836.6	846.3	856.6
North Carolina	338.0	366.7	444.5	550.6	583.0	615.8	650.6
South Carolina	283.1	296.2	319.3	360.2	373.7	389.9	407.6
Virginia	528.4	523.2	563.8	652.6	679.8	706.8	727.1
West Virginia	395.4	393.6	387.3	381.4	381.8	382.7	385.0
East South Central	**2,139.2**	**2,211.6**	**2,285.7**	**2,450.8**	**2,513.2**	**2,573.5**	**2,645.5**
Alabama	637.1	679.0	688.4	710.6	732.5	745.0	756.9
Kentucky	631.3	626.7	643.7	675.6	684.2	696.0	712.4
Mississippi	380.3	396.7	403.7	410.4	413.2	416.4	422.1
Tennessee	490.5	509.3	549.4	654.2	683.3	716.1	754.1
West South Central	**5,092.0**	**5,509.8**	**5,847.6**	**5,856.0**	**5,876.7**	**5,971.6**	**6,066.3**
Arkansas	461.4	489.9	530.9	554.4	552.5	557.4	568.6
Louisiana	935.9	1,002.3	995.8	978.5	972.6	990.9	990.3
Oklahoma	740.5	816.4	902.8	890.2	896.5	904.2	921.8
Texas	2,954.2	3,201.2	3,418.1	3,432.9	3,455.1	3,519.1	3,585.5
Mountain	**2,311.6**	**2,700.3**	**3,041.1**	**3,255.1**	**3,336.0**	**3,420.6**	**3,525.4**
Arizona	554.1	579.1	595.4	610.5	617.7	626.9	648.6
Colorado	688.8	850.1	1,011.1	1,077.3	1,099.3	1,117.3	1,138.1
Idaho	107.5	108.6	116.9	129.2	136.2	144.8	155.3
Montana	173.4	182.7	189.1	196.1	199.3	201.8	206.7
Nevada	112.2	168.2	201.2	396.8	277.5	412.8	319.3
New Mexico	278.9	327.6	367.1	257.1	404.5	301.6	424.5
Utah	297.4	361.0	432.8	465.4	478.6	491.7	504.5
Wyoming	99.2	122.9	127.5	122.7	122.9	123.7	128.4
Pacific	**7,153.5**	**8,010.8**	**8,697.9**	**9,661.2**	**9,901.6**	**10,107.3**	**10,236.3**
Alaska	29.1	42.1	72.2	80.4	81.8	83.6	86.5
California	6,495.1	7,286.3	7,888.0	8,721.1	8,908.5	9,053.4	9,122.2
Hawaii	34.8	33.2	32.8	34.2	34.3	34.7	35.2
Oregon	248.2	275.3	303.6	346.7	364.3	385.4	402.8
Washington	346.3	373.9	401.3	478.8	512.7	550.2	589.6

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a. Excludes customers purchasing for resale.

CUSTOMERS

TABLE 8-4
GAS UTILITY INDUSTRY CUSTOMERS, BY STATE AND CLASS OF SERVICE, AVERAGES, 1992

(Thousands)

		Class of Service				
Division and State	Total	Residential	Commercial	Industrial	Electric Generation	Other
United States	**56,132.3**	**51,524.6**	**4,396.9**	**164.8**	**0.5**	**45.5**
New England	**2,068.8**	**1,868.8**	**186.3**	**8.9**	**a**	**4.8**
Connecticut	480.1	431.0	46.1	2.9	a	0.1
Maine	17.5	12.9	4.6	0.1	0.0	0.0
Massachusetts	1,248.2	1,136.5	103.3	4.6	a	3.8
New Hampshire	79.6	68.1	10.7	0.3	a	0.4
Rhode Island	216.2	196.8	18.3	1.0	a	a
Vermont	27.3	23.6	3.3	a	a	0.5
Middle Atlantic	**9,063.4**	**8,326.8**	**696.6**	**26.5**	**a**	**13.5**
New Jersey	2,248.3	2,025.0	212.1	11.2	a	a
New York	4,272.0	3,951.7	298.6	10.0	a	11.7
Pennsylvania	2,543.1	2,350.1	185.9	5.3	a	1.8
East North Central	**12,342.1**	**11,330.4**	**957.3**	**50.4**	**0.1**	**3.9**
Illinois	3,625.8	3,320.7	285.8	18.6	a	0.7
Indiana	1,506.3	1,372.0	127.9	5.8	a	0.5
Michigan	2,851.6	2,640.1	200.9	10.5	a	0.0
Ohio	3,060.0	2,818.1	231.9	7.1	a	2.7
Wisconsin	1,298.6	1,179.5	110.8	8.3	a	a
West North Central	**4,852.6**	**4,354.7**	**484.8**	**11.6**	**0.3**	**1.2**
Iowa	812.2	725.7	84.5	1.6	0.1	0.3
Kansas	852.8	764.0	84.7	3.9	0.1	0.2
Minnesota	1,118.3	1,013.4	100.9	3.8	0.1	0.1
Missouri	1,349.1	1,221.1	126.8	0.7	a	0.6
Nebraska	493.6	430.7	61.7	1.1	a	a
North Dakota	101.9	89.5	12.3	a	0.0	a
South Dakota	124.7	110.3	13.9	0.5	a	0.0
South Atlantic	**5,331.9**	**4,849.9**	**461.9**	**16.3**	**a**	**3.8**
Delaware	102.4	94.0	8.2	0.2	a	a
District of Columbia	147.8	133.1	14.7	0.0	0.0	0.0
Florida	565.4	515.5	49.3	0.3	a	0.3
Georgia	1,489.3	1,375.7	108.4	2.9	a	2.2
Maryland	856.6	788.6	62.1	5.8	a	a
North Carolina	650.6	574.7	72.9	3.0	a	a
South Carolina	407.6	363.5	42.4	1.3	a	0.4
Virginia	727.1	652.9	70.8	2.6	a	0.8
West Virginia	385.0	351.9	32.9	0.2	a	0.1
East South Central	**2,654.5**	**2,381.5**	**249.4**	**7.0**	**a**	**7.6**
Alabama	756.9	698.1	55.4	2.3	a	1.2
Kentucky	712.4	642.8	66.9	1.4	0.0	1.4
Mississippi	422.1	379.5	39.4	1.1	a	2.1
Tennessee	754.1	661.1	87.9	2.2	0.0	2.9
West South Central	**6,066.3**	**5,560.7**	**490.8**	**8.4**	**a**	**6.4**
Arkansas	568.6	504.9	62.6	1.2	0.0	a
Louisiana	990.3	927.6	60.2	1.0	a	1.5
Oklahoma	921.8	832.6	86.4	2.7	a	0.1
Texas	3,585.5	3,295.5	281.6	3.5	a	4.8
Mountain	**3,525.4**	**3,202.6**	**315.3**	**3.4**	**a**	**4.1**
Arizona	648.6	601.1	46.5	0.5	a	0.7
Colorado	1,138.1	1,022.2	115.0	0.7	a	0.1
Idaho	155.3	134.2	20.8	0.3	0.0	a
Montana	206.7	182.7	23.5	0.4	0.0	0.1
Nevada	319.3	296.4	22.8	0.1	a	a
New Mexico	424.5	384.9	35.8	0.6	a	3.2
Utah	504.5	467.7	36.1	0.7	a	a
Wyoming	128.4	113.5	14.8	0.1	0.0	a
Pacific	**10,236.3**	**9,649.2**	**554.5**	**32.3**	**0.1**	**0.2**
Alaska	86.5	74.3	12.2	0.0	a	a
California	9,122.2	8,668.1	427.6	26.3	0.1	0.1
Hawaii	35.2	31.6	1.7	1.9	0.0	0.0
Oregon	402.8	352.1	50.1	0.6	a	0.0
Washington	589.6	523.1	62.9	3.6	a	0.1

a. Less than 0.05 thousand.

TABLE 8-5
GAS UTILITY INDUSTRY HOUSEHEATING CUSTOMERS, BY STATE, YEARLY AVERAGES FOR 1988–1992

(Thousands)

Division and State	1988	1989	1990	1991	1992	
					Number	Saturation[a]
United States	**42,338.9**	**43,102.8**	**43,850.5**	**44,608.7**	**45,477.0**	**88.3**
New England	**1,263.0**	**1,302.1**	**1,319.4**	**1,360.3**	**1,394.4**	**74.6**
Connecticut	287.4	289.2	292.3	307.4	313.3	72.7
Maine	5.1	783.9	5.3	6.6	7.3	56.7
Massachusetts	763.2	8.1	794.0	840.2	852.4	75.0
New Hampshire	52.3	60.6	61.9	59.3	60.7	89.2
Rhode Island	137.5	142.4	146.7	126.1	138.9	70.6
Vermont	17.5	17.9	19.2	20.7	21.8	92.4
Middle Atlantic	**5,315.3**	**5,373.3**	**5,425.5**	**6,275.4**	**5,875.0**	**70.6**
New Jersey	1,331.2	1,365.5	1,383.0	1,444.6	1,454.0	71.8
New York	2,003.7	1,996.7	2,014.3	2,820.1	2,344.9	59.3
Pennsylvania	1,980.4	2,011.1	2,028.2	2,010.7	2,076.1	88.3
East North Central	**10,126.3**	**10,302.4**	**10,465.4**	**10,505.6**	**10,883.4**	**96.0**
Illinois	2,848.7	2,868.0	2,903.9	2,889.7	3051.7	91.9
Indiana	1,232.3	1,250.2	1,274.4	1,310.2	1,329.5	96.9
Michigan	2,420.4	2,492.4	2,536.0	2,483.9	2,597.9	98.4
Ohio	2,630.9	2,673.2	2,708.3	2,742.8	2,792.7	99.1
Wisconsin	994.0	1,018.6	1,042.8	1,079.0	1,111.6	94.2
West North Central	**4,019.9**	**4,075.6**	**4,126.5**	**4,006.1**	**4,167.6**	**95.7**
Iowa	664.5	668.3	676.0	693.7	697.4	96.1
Kansas	724.8	732.6	741.1	743.3	725.0	94.9
Minnesota	869.5	896.3	922.0	961.8	961.7	94.9
Missouri	1,177.6	1,188.8	1,192.3	1,009.0	1167.4	95.6
Nebraska	406.3	409.2	412.9	414.5	421.7	97.9
North Dakota	80.0	80.0	80.6	84.4	87.4	97.6
South Dakota	97.2	100.4	101.6	99.4	107.0	97.0
South Atlantic	**3,674.4**	**3,464.4**	**3,555.6**	**3,768.5**	**3,973.1**	**81.9**
Delaware	62.7	67.1	67.5	67.4	70.9	75.4
District of Columbia	102.5	106.3	104.9	108.2	109.0	81.9
Florida	356.7	366.3	362.7	249.5	268.1	52.0
Georgia	1,219.4	1,277.5	1,277.1	1,213.7	1,359.2	98.8
Maryland	619.7	641.4	632.7	644.0	658.8	83.5
North Carolina	443.2	332.1	341.9	322.7	262.6	45.7
South Carolina	273.3	c	c	237.8	277.7	76.4
Virginia	472.0	546.5	556.7	578.2	616.3	94.4
West Virginia	124.9	127.3	132.0	347.0	350.5	99.6
East South Central	**2,030.7**	**1,894.0**	**1,947.1**	**2,247.1**	**2,313.6**	**97.2**
Alabama	584.4	622.6	642.0	662.4	664.9	95.2
Kentucky	583.5	590.0	597.7	594.9	621.8	96.7
Mississippi	340.7	140.2	141.0	374.5	378.1	99.6
Tennessee	522.1	541.2	566.4	615.3	648.8	98.1
West South Central	**4,734.5**	**5,047.4**	**5,071.8**	**4,992.0**	**5,173.2**	**93.0**
Arkansas	438.4	445.7	444.2	431.2	442.8	87.7
Louisiana	671.7	872.9	868.9	861.9	870.1	93.8
Oklahoma	779.9	779.8	786.7	815.8	830.1	99.7
Texas	2,844.5	2,949.0	2,972.0	2,883.1	3,030.2	92.0
Mountain	**2,756.6**	**2,719.5**	**2,789.2**	**2,998.4**	**3,103.8**	**96.9**
Arizona	472.7	480.8	483.2	526.7	551.2	91.7
Colorado	951.8	970.9	984.0	1,000.1	1,020.2	99.8
Idaho	105.0	109.8	114.6	124.6	133.5	99.5
Montana	159.7	74.1	74.2	169.2	174.7	95.6
Nevada	192.6	308.1	218.9	252.4	271.8	91.7
New Mexico	351.1	237.1	365.2	373.9	384.9	100.0
Utah	418.3	432.1	443.6	446.4	458.3	98.0
Wyoming	105.4	106.6	105.5	105.1	109.2	96.2
Pacific	**8,418.2**	**8,924.1**	**9,150.0**	**8,455.3**	**8,592.9**	**89.1**
Alaska	67.9	68.8	b	b	b	b
California	7,711.4	8,182.4	8,347.3	7,595.6	7,784.0	89.8
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0
Oregon	265.6	277.1	290.4	320.9	329.2	93.5
Washington	373.3	395.8	424.0	476.0	479.7	91.7

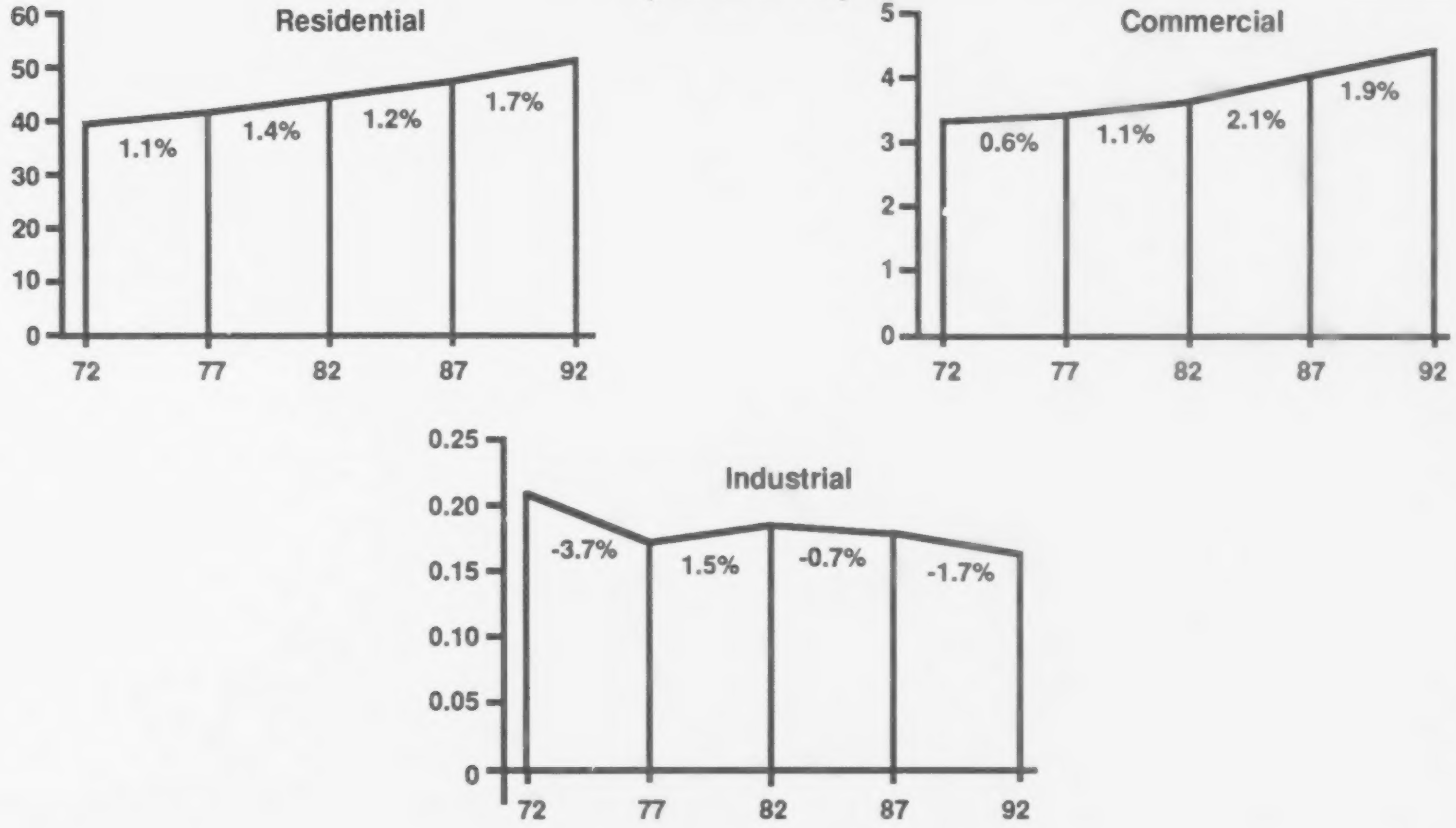
a. Percentages refer to proportion of residential natural gas customers using gas for heating.

b. Nct Available.

Source: A.G.A. *Residential Natural Gas Market Survey: 1992.* Data represent average number of customers developed from number of year-end customers as shown in survey.

CHART 8-1

GAS UTILITY INDUSTRY CUSTOMERS
(MILLIONS)

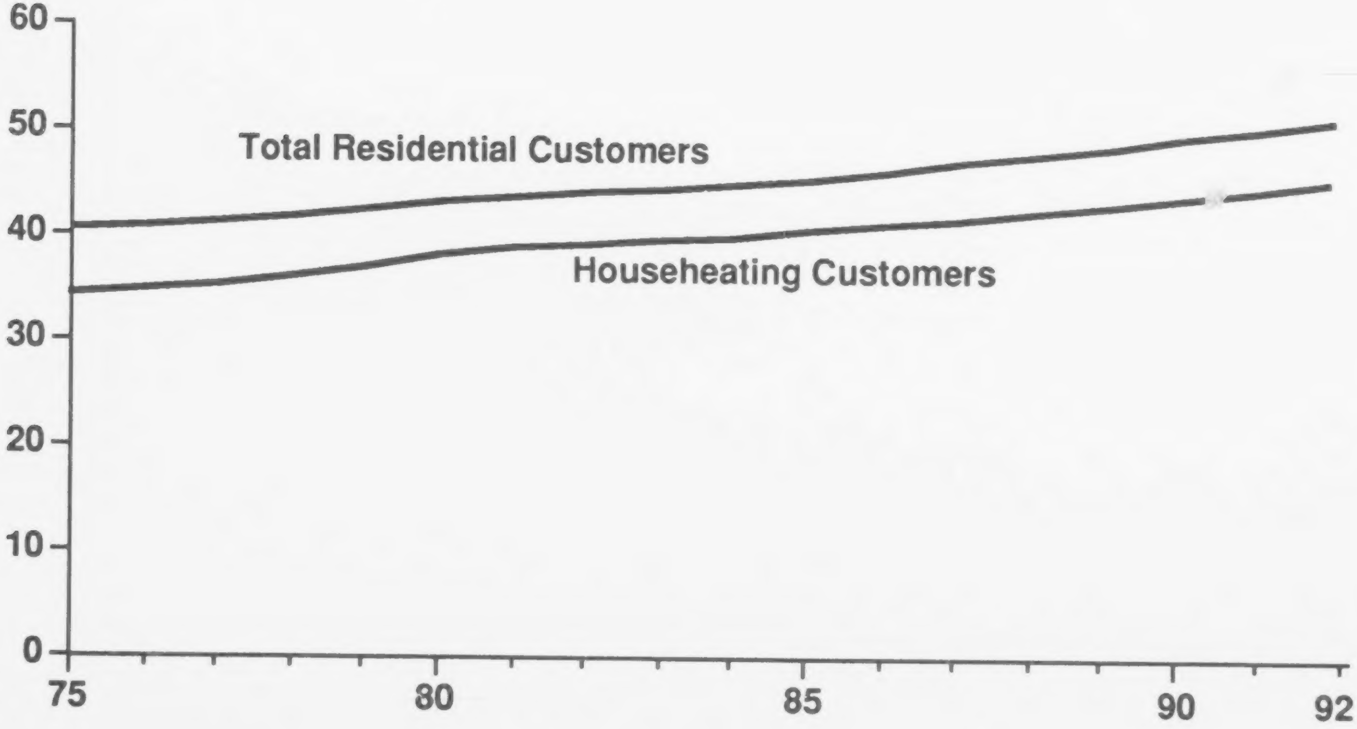


REFERENCE: TABLE 8-1

% Equals Compound Annual Growth Rates

CHART 8-2

GAS UTILITY HOUSEHEATING CUSTOMERS
(MILLIONS)



REFERENCE: TABLE 8-6

TABLE 8-6
GAS UTILITY INDUSTRY HOUSEHEATING CUSTOMERS AND HEATING SATURATIONS[a] BY CENSUS DIVISION, 1975–1992 YEARLY AVERAGES

(Thousands)

	1975		1980		1985		1988	
Census Division	Customers	Percent	Customers	Percent	Customers	Percent	Customers	Percent
United States	**34,372**	**84.1**	**38,184**	**87.8**	**40,781**	**88.8**	**42,339**	**88.0**
New England	857	54.8	1,010	63.1	1,138	67.6	1,263	70.5
Middle Atlantic	4,128	54.1	4,522	60.0	5,011	64.8	5,315	66.5
East North Central	8,432	89.4	9,169	92.1	9,671	94.4	10,126	94.8
West North Central	3,261	94.5	3,592	96.3	3,753	95.3	4,020	97.5
South Atlantic	2,970	84.2	3,315	89.4	3,626	90.1	3,674	85.0
East South Central	1,868	96.5	1,967	98.5	2,008	97.6	2,031	94.0
West South Central	4,496	97.1	4,999	99.5	4,983	93.4	4,735	89.0
Mountain	2,040	98.0	2,407	98.2	2,649	96.2	2,757	95.5
Pacific	6,320	94.6	7,203	95.8	7,942	97.4	8,419	95.2

	1989		1990		1991		1992	
Census Division	Customers	Percent	Customers	Percent	Customers	Percent	Customers	Percent
United States	**43,851**	**88.0**	**43,851**	**88.0**	**44,609**	**88.1**	**45,477**	**88.3**
New England	1,302	71.3	1,319	71.3	1,360	73.4	1,394	74.6
Middle Atlantic	5,373	66.5	5,426	66.3	6,275	76.2	5,875	70.6
East North Central	10,303	95.0	10,465	95.0	10,506	94.0	10,883	96.0
West North Central	4,076	97.5	4,127	97.5	4,006	93.5	4,168	95.7
South Atlantic	3,464	78.3	3,556	78.4	3,769	80.6	3,973	81.9
East South Central	1,894	86.1	1,947	86.2	2,247	97.1	2,314	97.2
West South Central	5,047	94.3	5,072	94.3	4,992	91.2	5,173	93.0
Mountain	2,720	92.3	2,789	92.3	2,998	96.6	3,104	96.9
Pacific	8,924	98.3	9,150	98.3	8,455	89.2	8,593	89.1

a. Percentages refer to proportion of total residential natural gas customers, within specified areas, using gas for heating.

Source: *A.G.A. Residential Gas Market Survey: 1992.* Data represent average number of customers developed from number of year-end customers as shown in survey.

SECTION 9
PRICES

	1992	% Change 92/91*
Gas Utility Industry		
($/MMBtu)		
Total	$ 4.66	+ 0.2
Residential	5.69	+ 0.5
Commercial	4.92	+ 1.4
Industrial	2.85	− 1.0
Other	3.02	+ 1.3
Wellhead ($/Mcf)	1.86	+13.4
City Gate	3.48	− 2.8
Electric (Residential)	19.96	−15.2
Number 2 Fuel Oil	6.93	− 5.6

*Percentage change based on unrounded data for both years. Percentage change for wellhead price based on preliminary data for both years.

Prices in this section, unless cited as a source other than A.G.A., were developed using the following methodology. Total revenues for a specific segment and time period are divided by the corresponding total sales for that specific segment and time period. For example, the residential price (average 1992) for the state of New York was obtained by dividing total 1992 residential revenues in New York by the total 1992 residential sales in New York. Likewise, the residential price (average 1992) for the total United States was obtained by dividing total 1992 residential revenues in the United States by the total 1992 residential sales in the United States.

Table 9-15 details the average price of transporting natural gas to end users by local distribution companies, interstate and intrastate pipelines. This data includes the fee paid for transporting the gas from a certain location to the end user but does not include the price paid for the gas. The prices are derived by dividing total revenues received for transporting gas to end users in a given state and class of service by the corresponding transportation volumes delivered. Revenues may include some fixed charges for various services, i.e. stand-by service.

TABLE 9-1
AVERAGE WELLHEAD PRICES OF NATURAL GAS, BY STATE, 1975–1991[a]

(¢/Mcf)

Division and State	1975	1980	1985	1988	1989	1990	1991
United States	**44.5¢**	**158.8¢**	**251.1¢**	**169.1¢**	**169.5¢**	**167.8¢**	**161.6¢**
New England	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**
Middle Atlantic	**68.0**	**210.2**	**319.4**	**216.8**	**238.1**	**233.1**	**219.4**
New Jersey	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New York	74.0	194.9	337.0	230.0	220.0	220.0	215.0
Pennsylvania	67.5	212.7	315.6	215.0	240.0	235.0	220.0
East North Central	**66.6**	**217.6**	**329.2**	**284.0**	**284.6**	**272.6**	**261.2**
Illinois	70.0	190.0	277.0	218.8	215.0	210.9	217.0
Indiana	39.0	135.0	250.7	157.0	170.9	201.0	172.0
Michigan	63.4	235.5	360.0	317.9	315.6	300.1	279.1
Ohio	70.6	197.7	307.5	255.1	255.3	254.2	238.3
Wisconsin	0.0	0.0	0.0	0.0	0.0	0.0	0.0
West North Central	**17.5**	**79.5**	**135.9**	**141.9**	**146.9**	**156.3**	**137.6**
Iowa	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Kansas	17.2	77.2	127.0	135.6	144.3	155.8	137.3
Minnesota	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Missouri	34.0	0.0	350.0	375.0	350.0	157.1	131.6
Nebraska	54.1	82.9	301.1	266.2	223.0	226.1	205.6
North Dakota	23.0	118.8	189.6	199.7	178.3	178.6	166.6
South Dakota	0.0	b	251.4	195.1	110.6	155.8	111.8
South Atlantic	**50.4**	**274.2**	**368.8**	**290.9**	**300.0**	**306.2**	**289.0**
Delaware	0.0	0.0	0.0	0.0	0.0	0.0	0.0
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Florida	97.3	173.0	243.3	152.8	205.0	224.7	246.0
Georgia	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Maryland	27.0	45.6	59.0	93.1	85.3	113.6	155.2
North Carolina	0.0	0.0	0.0	0.0	0.0	0.0	0.0
South Carolina	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Virginia	51.5	285.0	302.0	208.0	219.0	229.6	188.0
West Virginia	36.9	300.0	385.0	305.0	311.0	318.9	297.0
East South Central	**59.3**	**223.2**	**316.0**	**232.7**	**232.1**	**203.9**	**187.8**
Alabama	87.0	318.6	371.1	265.3	272.2	275.4	232.7
Kentucky	54.0	89.3[c]	238.6	256.4	213.0	224.2	203.1
Mississippi	49.6	231.7	316.5	186.1	196.6	176.4	165.8
Tennessee	43.0	176.0	248.0	150.0	165.0	165.0	172.0
West South Central	**45.6**	**156.9**	**248.0**	**163.1**	**166.0**	**165.0**	**161.1**
Arkansas	34.7	69.6	255.0	194.1	240.9	206.0	192.5
Louisiana	42.3	160.7[c]	266.4	180.6	182.3	182.9	173.2
Oklahoma	32.0	150.7	247.3	154.5	158.7	157.1	146.7
Texas	51.9	156.5[d]	232.9	150.7	153.3	156.7	159.0
Mountain	**38.2**	**172.6**	**278.6**	**167.7**	**144.6**	**149.1**	**128.3**
Arizona	28.0	b	b	b	180.0	120.0	150.0
Colorado	48.0	147.0	289.9	159.0	152.0	155.0	141.4
Idaho	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Montana	43.3	145.4	239.0	170.0	154.6	179.7	166.3
Nevada	0.0	0.0	0.0	0.0	0.0	0.0	0.0
New Mexico	40.5	175.8	261.8	170.1	156.4	168.8	136.9
Utah	48.0	111.7	351.5	239.0	158.0	170.0	154.2
Wyoming	33.7	192.0	300.6	152.7	123.6	116.3	106.0
Pacific	**56.7**	**210.7**	**232.5**	**181.5**	**182.0**	**195.5**	**197.7**
Alaska	30.2	73.2	73.5	126.7	136.2	137.6	147.6
California	70.0	217.0	336.5	239.5	231.9	236.4	245.6
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Oregon	0.0	240.0	240.2	160.0	140.0	138.5	141.6
Washington	0.0	0.0	0.0	0.0	0.0	0.0	0.0

a. Reflects price at first point of transfer, representing sales made by producers. The 1992 U.S. average wellhead price of natural gas is estimated to be 186.0¢.

b. Not available.

c. Value data are for the period beginning June 1, 1980 and ending May 31, 1981.

d. Weighted average value obtained from separate onshore and OCS average value calculations.

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Annual*, 1991.

TABLE 9-2
GAS UTILITY INDUSTRY AVERAGE PRICES BY CLASS OF SERVICE, 1968–1992

($/MMBtu)

Year	Total	Residential	Commercial	Industrial[a]	Other
1968	$0.61	$1.00	$0.77	$0.35	$0.36
1969	0.62	1.01	0.78	0.36	0.39
1970	0.64	1.06	0.81	0.38	0.41
1971	0.68	1.12	0.85	0.41	0.38
1972	0.73	1.19	0.91	0.45	0.41
1973	0.79	1.25	0.95	0.50	0.44
1974	0.95	1.42	1.11	0.66	0.60
1975	1.29	1.69	1.38	0.99	0.94
1976	1.60	1.98	1.68	1.31	1.36
1977	1.97	2.33	2.07	1.69	1.74
1978	2.18	2.53	2.28	1.90	1.79
1979	2.52	2.92	2.66	2.23	1.94
1980	3.13	3.61	3.34	2.79	2.67
1981	3.65	4.16	3.91	3.29	3.46
1982	4.46	4.97	4.72	4.00	4.30
1983	5.12	5.88	5.51	4.41	4.92
1984	5.13	5.94	5.51	4.36	4.87
1985	5.02	5.95	5.44	4.10	4.79
1986	4.60	5.65	5.04	3.34	4.02
1987	4.32	5.39	4.77	2.88	3.43
1988	4.31	5.29	4.63	2.85	3.36
1989	4.50	5.45	4.77	2.98	3.10
1990	4.59	5.60	4.84	2.99	3.23
1991	4.65	5.66	4.85	2.88	2.98
1992	4.66	5.69	4.92	2.85	3.02

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a. Includes Electric Generation.

TABLE 9-3
GAS UTILITY INDUSTRY AVERAGE PRICES, BY STATE, 1975–1992[a]

($/MMBtu)

Division and State	1975	1980	1985	1989	1990	1991[R]	1992
United States	**$1.29**	**$3.13**	**$5.02**	**$4.50**	**$4.59**	**$4.65**	**$4.66**
New England	**2.87**	**4.96**	**6.57**	**5.72**	**6.10**	**6.34**	**6.53**
Connecticut	2.93	4.99	7.28	6.54	6.69	6.89	7.28
Maine	3.04	5.15	7.44	5.82	6.12	5.20	5.50
Massachusetts	2.91	4.96	6.29	5.36	5.83	6.18	6.33
New Hampshire	2.21	4.25	6.70	6.14	6.47	6.16	6.06
Rhode Island	2.82	5.00	6.78	6.36	6.56	6.58	6.48
Vermont	2.06	5.66	5.71	4.69	4.87	4.74	5.22
Middle Atlantic	**1.97**	**3.98**	**6.31**	**5.84**	**6.00**	**6.05**	**6.01**
New Jersey	2.31	4.36	6.41	5.52	5.49	5.44	5.40
New York	2.14	4.43	6.57	6.35	6.39	6.52	6.59
Pennsylvania	1.68	3.45	5.94	5.47	5.90	6.00	5.83
East North Central	**1.34**	**3.17**	**5.27**	**4.74**	**4.71**	**4.71**	**4.71**
Illinois	1.35	3.26	5.05	4.40	4.63	4.55	4.63
Indiana	1.16	2.82	4.72	4.95	4.87	4.80	4.69
Michigan	1.43	3.06	5.66	4.77	4.57	4.65	4.57
Ohio	1.35	3.24	5.47	4.96	4.81	4.88	4.81
Wisconsin	1.31	3.42	5.36	4.91	4.84	4.78	4.97
West North Central	**1.00**	**2.68**	**4.61**	**4.10**	**4.25**	**4.20**	**4.42**
Iowa	1.04	2.81	4.61	3.97	4.11	4.09	4.60
Kansas	0.69	2.24	3.77	3.84	4.02	3.99	4.20
Minnesota	1.19	2.81	5.09	4.06	4.09	3.95	4.25
Missouri	1.18	3.04	4.98	4.46	4.78	4.80	4.75
Nebraska	0.90	2.34	4.33	3.95	4.04	4.07	4.21
North Dakota	1.26	3.57	5.28	4.20	4.31	4.35	4.54
South Dakota	1.05	2.81	5.07	4.14	4.38	4.20	4.41
South Atlantic	**1.39**	**3.28**	**5.29**	**4.60**	**4.72**	**4.93**	**4.96**
Delaware	1.73	3.46	5.53	4.83	4.65	4.43	4.70
District of Columbia	2.21	4.38	7.35	6.30	6.52	6.10	6.06
Florida	1.15	2.63	3.91	3.12	3.31	4.01	4.60
Georgia	1.12	3.17	5.31	5.15	5.36	5.43	5.22
Maryland	1.97	3.87	6.59	5.50	5.44	5.22	5.40
North Carolina	1.58	3.46	5.35	4.78	4.34	4.29	4.37
South Carolina	1.10	3.16	5.08	4.49	4.41	4.21	4.23
Virginia	1.78	3.58	5.93	4.74	5.44	5.34	5.44
West Virginia	1.24	3.27	5.65	4.76	5.31	5.67	5.05
East South Central	**1.03**	**2.85**	**4.55**	**4.18**	**4.34**	**4.34**	**4.33**
Alabama	1.04	3.11	4.81	4.56	4.90	5.17	5.03
Kentucky	1.11	2.90	4.90	4.39	4.50	4.25	4.32
Mississippi	0.95	2.71	3.93	3.78	3.91	3.77	3.40
Tennessee	1.00	2.69	4.51	3.96	4.06	4.12	4.36
West South Central	**0.99**	**2.53**	**3.89**	**3.27**	**3.23**	**3.17**	**3.16**
Arkansas	0.80	1.97	3.92	4.31	4.25	4.25	4.38
Louisiana	0.85	2.36	3.92	3.45	3.57	3.24	2.57
Oklahoma	0.79	2.05	3.73	3.16	2.91	3.01	3.69
Texas	1.10	2.72	3.91	3.18	3.16	3.11	3.23
Mountain	**0.99**	**2.84**	**4.66**	**4.28**	**4.44**	**4.38**	**4.43**
Arizona	1.19	2.82	4.81	3.90	4.75	4.26	5.53
Colorado	0.90	2.95	4.74	4.34	4.24	4.22	4.25
Idaho	1.48	4.03	5.19	4.53	4.35	4.61	4.70
Montana	1.03	3.03	4.64	3.73	4.87	3.87	4.13
Nevada	1.30	3.17	5.46	4.84	4.83	4.86	4.85
New Mexico	0.88	2.66	4.70	4.95	4.81	4.65	3.52
Utah	0.85	2.34	4.00	4.30	4.48	4.70	4.74
Wyoming	0.70	2.45	4.28	4.18	4.34	4.24	4.19
Pacific	**1.31**	**3.65**	**5.08**	**4.32**	**4.52**	**4.91**	**4.71**
Alaska	0.81	1.20	2.24	3.00	3.19	3.66	3.43
California	1.26	3.57	5.09	4.36	4.61	5.12	4.87
Hawaii	6.78	13.01	14.20	11.48	12.30	13.44	13.46
Oregon	1.80	4.64	5.61	5.06	5.08	5.00	4.88
Washington	1.55	4.33	5.38	3.85	3.57	3.39	3.42

[a] Excludes sales for resale and revenues from sales for resale.

R–Revised.

TABLE 9-4
GAS UTILITY INDUSTRY RESALE PRICES, BY STATE, 1975-1992[a]

($/MMBtu)

Division and State	1975	1980	1985	1989	1990	1991	1992
United States	**$0.80**	**$2.41**	**$3.82**	**$3.44**	**$3.54**	**$3.58**	**$3.48**
New England	**1.41**	**2.84**	**4.10**	**3.94**	**4.63**	**5.76**	**5.54**
Connecticut	1.51	2.91	4.11	3.98	4.60	5.87	8.85
Maine	b	b	b	b	b	b	b
Massachusetts	1.35	2.81	4.09	3.95	4.69	5.92	5.11
New Hampshire	0.99	2.59	4.38	3.79	4.86	5.43	b
Rhode Island	1.59	2.94	4.03	3.78	4.33	4.78	6.28
Vermont	0.67	b	b	b	b	b	b
Middle Atlantic	**0.93**	**2.49**	**3.95**	**3.82**	**3.88**	**4.47**	**4.49**
New Jersey	0.99	2.45	3.71	3.40	3.64	4.67	4.52
New York	0.93	2.59	4.02	4.07	4.17	4.44	4.87
Pennsylvania	0.90	2.45	4.04	3.95	3.82	4.36	4.25
East North Central	**0.79**	**2.41**	**3.91**	**3.61**	**3.84**	**3.77**	**4.11**
Illinois	0.68	2.12	3.51	3.44	3.81	3.65	4.26
Indiana	0.72	2.14	4.02	3.38	3.56	3.58	3.52
Michigan	0.87	2.93	4.46	3.71	4.02	3.82	3.75
Ohio	0.84	2.39	4.13	3.52	3.92	4.87	5.64
Wisconsin	0.95	3.07	4.11	4.65	4.18	3.83	3.96
West North Central	**0.70**	**2.11**	**3.64**	**3.26**	**3.49**	**3.58**	**3.49**
Iowa	0.78	2.48	3.82	3.54	4.05	3.32	3.19
Kansas	0.53	1.78	2.98	3.11	3.40	3.61	2.88
Minnesota	0.75	2.32	3.93	3.24	2.97	4.07	5.40
Missouri	0.69	1.86	3.43	3.18	3.46	3.36	3.44
Nebraska	0.69	2.02	4.00	3.34	4.00	3.91	4.10
North Dakota	1.40	4.55	4.16	3.51	4.70	4.62	4.46
South Dakota	0.72	2.11	4.07	3.29	5.48	4.38	4.71
South Atlantic	**0.80**	**2.44**	**4.35**	**3.82**	**3.31**	**3.41**	**3.54**
Delaware	0.98	2.41	4.59	3.44	1.72	3.81	3.63
District of Columbia	b	b	b	b	b	b	b
Florida	0.66	2.31	3.31	2.61	2.76	2.82	3.31
Georgia	0.69	2.30	4.24	4.60	4.69	4.39	4.34
Maryland	1.05	2.61	4.40	3.39	2.98	3.98	3.76
North Carolina	0.81	2.66	4.17	4.22	2.65	2.48	2.69
South Carolina	0.68	2.32	4.11	4.95	3.41	3.19	3.05
Virginia	0.98	2.60	4.65	3.80	2.51	3.42	3.40
West Virginia	0.76	2.35	5.97	4.03	4.21	2.96	3.56
East South Central	**0.64**	**2.15**	**3.87**	**3.42**	**4.02**	**4.12**	**4.41**
Alabama	0.64	2.25	3.99	4.08	5.16	5.80	5.35
Kentucky	0.71	2.23	3.86	3.20	3.35	3.38	3.23
Mississippi	0.62	2.19	3.86	3.69	4.54	3.83	3.39
Tennessee	0.61	2.04	3.80	3.21	3.91	4.10	4.99
West South Central	**0.63**	**2.15**	**3.46**	**2.99**	**2.81**	**2.43**	**2.31**
Arkansas	0.58	2.17	2.91	2.28	1.69	1.89	3.31
Louisiana	0.62	2.09	3.60	3.70	3.79	2.96	2.33
Oklahoma	0.62	2.05	3.10	1.99	1.88	1.84	2.16
Texas	0.64	2.21	3.45	2.78	2.56	2.38	2.32
Mountain	**0.71**	**2.37**	**3.54**	**3.56**	**4.03**	**4.05**	**3.05**
Arizona	0.70	2.26	3.47	3.95	5.66	5.72	2.31
Colorado	0.58	2.51	3.63	3.41	3.20	3.29	3.09
Idaho	1.14	3.43	3.68	4.57	3.89	4.17	3.81
Montana	0.95	3.42	4.12	3.44	4.03	4.03	4.07
Nevada	1.28	3.64	4.96	3.65	4.68	3.93	b
New Mexico	0.48	~~1.91~~	2.98	2.14	2.09	2.41	2.59
Utah	0.42	1.83	3.66	3.31	3.60	3.67	3.24
Wyoming	0.97	3.03	4.35	2.62	2.86	3.59	3.30
Pacific	**1.10**	**3.39**	**3.56**	**2.45**	**2.56**	**2.52**	**2.23**
Alaska	b	0.83	b	b	b	b	b
California	0.85	2.75	3.95	3.35	3.75	4.51	2.63
Hawaii	b	b	b	b	b	b	b
Oregon	1.27	4.29	3.39	2.25	2.38	2.33	2.13
Washington	1.11	3.40	3.60	2.58	2.55	2.67	3.34

a. Resale prices approximate city-gate prices.

b. No sales reported.

Note: Resale prices represent the price paid to pipeline companies by distribution companies for system gas only and may include take-or-pay and demand changes. These data should not be compared with data series published by outside entities as the measures vary between data sources.

TABLE 9-5
AVERAGE GAS PRICES OF WELLHEAD, CITY GATE, AND END-USER LEVEL
1972–1992

Year	Wellhead ($/Mcf[b])	City Gate[a] ($/MMBtu[b])	Cost to the Ultimate Customer ($/MMBtu[b])
1972	0.186	0.429	0.730
1973	0.216	0.463	0.788
1974	0.304	0.573	0.953
1975	0.445	0.798	1.285
1976	0.580	0.984	1.599
1977	0.790	1.308	1.974
1978	0.905	1.466	2.184
1979	1.178	1.812	2.522
1980	1.588	2.414	3.134
1981	1.982	2.885	3.650
1982	2.457	3.598	4.456
1983	2.593	4.041	5.121
1984	2.655	3.890	5.128
1985	2.511	3.821	5.017
1986	1.942	3.579	4.602
1987	1.665	3.305	4.315
1988	1.690	3.243	4.312
1989	1.690	3.445	4.501
1990[R]	1.710	3.542	4.588
1991[R]	1.640	3.583	4.649
1992	1.860	3.475	4.661

a. Resale prices approximate city-gate prices. See Table 9-4.

b. Mcf and MMBtu prices are roughly comparable. On a MMBtu basis, the wellhead price would be slightly less.

R–Revised

Source: For wellhead price, *Monthly Energy Review*.

TABLE 9-6
GAS UTILITY INDUSTRY AVERAGE PRICES, BY STATE AND CLASS OF SERVICE, 1992

($/MMBtu)

		Class of Service				
Division and State	Total	Residential	Commercial	Industrial	Electric Generation	Other
United States	**$4.66**	**$5.69**	**$4.92**	**$2.98**	**$2.56**	**$3.02**
New England	**6.53**	**7.99**	**6.47**	**4.23**	**2.67**	**4.62**
Connecticut	7.28	9.02	7.05	4.88	3.30	2.69
Maine	5.50	6.94	6.19	4.14	a	a
Massachusetts	6.33	7.76	6.28	3.87	2.58	5.20
New Hampshire	6.06	7.29	6.50	3.93	3.91	5.55
Rhode Island	6.48	7.55	6.13	4.87	2.93	5.58
Vermont	5.22	6.78	6.44	3.34	2.13	b
Middle Atlantic	**6.01**	**6.88**	**5.78**	**3.67**	**2.64**	**5.05**
New Jersey	5.40	6.73	5.40	3.37	2.70	3.61
New York	6.59	7.31	6.09	4.43	2.51	4.87
Pennsylvania	5.83	6.38	5.85	3.58	4.07	5.81
East North Central	**4.71**	**4.96**	**4.46**	**3.65**	**3.60**	**3.58**
Illinois	4.63	4.81	4.41	3.54	4.32	1.38
Indiana	4.69	5.30	4.47	3.30	b	3.68
Michigan	4.57	4.68	4.38	3.99	4.11	4.09
Ohio	4.81	5.00	4.58	3.99	3.03	3.98
Wisconsin	4.97	5.81	4.49	3.74	2.95	3.82
West North Central	**4.42**	**4.91**	**4.21**	**3.07**	**2.25**	**3.64**
Iowa	4.60	5.13	4.26	3.39	2.86	3.53
Kansas	4.20	4.64	3.85	2.76	1.85	3.34
Minnesota	4.25	4.84	4.28	2.95	2.11	3.27
Missouri	4.75	5.04	4.35	3.58	3.09	4.11
Nebraska	4.21	4.78	4.10	2.90	2.38	4.10
North Dakota	4.54	4.79	4.22	4.30	b	b
South Dakota	4.41	4.99	4.35	3.20	1.15	a
South Atlantic	**4.96**	**6.43**	**5.02**	**3.28**	**2.58**	**3.07**
Delaware	4.70	5.97	4.81	3.43	2.76	1.82
District of Columbia	6.06	7.16	5.36	a	a	a
Florida	4.60	8.07	4.75	3.14	2.70	b
Georgia	5.22	6.29	5.34	3.23	2.66	5.13
Maryland	5.40	6.26	5.06	4.31	2.39	3.74
North Carolina	4.37	6.21	4.63	3.25	2.78	b
South Carolina	4.24	6.95	5.69	2.99	2.69	b
Virginia	5.44	6.67	4.81	3.65	b	5.46
West Virginia	5.05	5.80	5.14	2.69	2.37	5.55
East South Central	**4.33**	**5.37**	**4.68**	**3.01**	**1.98**	**3.52**
Alabama	5.03	6.54	5.21	3.04	1.78	3.41
Kentucky	4.32	4.76	4.41	3.16	a	3.69
Mississippi	3.40	4.82	4.09	2.50	1.98	3.49
Tennessee	4.36	5.26	4.75	3.25	b	3.36
West South Central	**3.16**	**5.45**	**4.52**	**2.13**	**2.45**	**2.11**
Arkansas	4.38	5.03	4.31	3.03	a	3.23
Louisiana	2.57	5.50	4.84	1.97	2.06	1.98
Oklahoma	3.69	4.92	4.19	1.99	1.77	3.48
Texas	3.23	5.69	4.59	2.24	2.49	2.45
Mountain	**4.43**	**4.96**	**4.17**	**3.31**	**1.60**	**3.25**
Arizona	5.53	6.99	5.04	4.02	1.18	3.97
Colorado	4.25	4.49	3.95	3.93	1.98	3.36
Idaho	4.70	5.09	4.31	4.03	a	b
Montana	4.13	4.25	4.09	3.41	b	3.96
Nevada	4.85	5.43	4.18	4.08	3.67	3.93
New Mexico	3.52	4.65	3.72	1.92	1.64	2.82
Utah	4.74	5.07	4.14	3.67	b	b
Wyoming	4.19	4.56	4.10	2.64	a	3.04
Pacific	**4.71**	**5.72**	**5.53**	**3.06**	**3.05**	**2.95**
Alaska	3.43	3.80	3.38	a	2.47	1.85
California	4.87	5.83	6.13	3.28	3.06	2.95
Hawaii	13.46	17.92	11.13	14.50	a	a
Oregon	4.88	5.96	4.59	3.25	a	a
Washington	3.42	4.80	3.81	1.94	9.83	3.53

a. No sales reported.

b. Less than 0.05 trillion Btu in sales.

TABLE 9-7
AVERAGE RESIDENTIAL GAS PRICES, BY STATE, 1975–1992

($/MMBtu)

Division and State	1975	1980	1985	1989	1990	1991R	1992
United States	**$1.69**	**$3.61**	**$5.95**	**$5.45**	**$5.59**	**$5.66**	**$5.69**
New England	**3.22**	**5.48**	**7.90**	**7.17**	**7.68**	**7.92**	**7.99**
Connecticut	3.27	5.73	8.89	7.99	8.24	8.51	9.02
Maine	4.25	6.35	8.80	7.18	7.60	6.86	6.94
Massachusetts	3.20	5.41	7.61	6.98	7.63	7.83	7.76
New Hampshire	2.46	4.55	7.26	6.81	7.31	7.15	7.29
Rhode Island	3.16	5.48	7.80	6.78	7.10	7.61	7.55
Vermont	2.80	6.43	6.53	5.86	6.04	6.47	6.78
Middle Atlantic	**2.26**	**4.45**	**7.17**	**6.46**	**6.70**	**6.84**	**6.88**
New Jersey	2.59	4.89	7.28	6.38	6.40	6.55	6.73
New York	2.43	4.86	7.62	6.91	7.08	7.25	7.31
Pennsylvania	1.90	3.76	6.52	5.95	6.37	6.49	6.38
East North Central	**1.56**	**3.37**	**5.74**	**4.98**	**4.97**	**4.97**	**4.96**
Illinois	1.58	3.46	5.37	4.61	4.80	4.75	4.81
Indiana	1.45	3.12	5.49	5.41	5.40	5.36	5.30
Michigan	1.60	3.15	6.03	4.87	4.69	4.76	4.68
Ohio	1.51	3.45	5.82	5.15	5.04	5.08	5.00
Wisconsin	1.71	3.80	6.39	5.61	5.69	5.60	5.81
West North Central	**1.37**	**3.08**	**5.24**	**4.55**	**4.76**	**4.70**	**4.91**
Iowa	1.41	3.20	5.32	4.67	4.87	4.76	5.13
Kansas	0.97	2.37	4.12	4.15	4.42	4.38	4.64
Minnesota	1.59	3.24	5.75	4.56	4.63	4.51	4.84
Missouri	1.45	3.37	5.47	4.75	5.08	5.10	5.04
Nebraska	1.26	2.71	4.97	4.43	4.55	4.60	4.78
North Dakota	1.50	3.83	5.59	4.45	4.54	4.59	4.79
South Dakota	1.40	3.11	5.62	4.65	4.94	4.77	4.99
South Atlantic	**2.02**	**4.15**	**6.71**	**6.25**	**6.43**	**6.56**	**6.43**
Delaware	2.34	4.15	6.80	6.21	5.93	5.65	5.97
District of Columbia	2.40	4.56	7.96	7.51	7.58	7.21	7.16
Florida	2.78	4.85	7.33	7.15	7.85	7.92	8.07
Georgia	1.75	4.06	6.44	6.07	6.43	6.71	6.29
Maryland	2.31	4.40	7.14	6.25	6.34	6.14	6.26
North Carolina	2.02	4.00	6.41	6.41	5.91	6.02	6.21
South Carolina	2.08	4.13	6.53	6.65	6.73	6.88	6.95
Virginia	2.29	4.24	7.07	6.52	6.72	6.97	6.67
West Virginia	1.47	3.62	5.97	5.22	5.84	6.22	5.80
East South Central	**1.43**	**3.37**	**5.47**	**5.13**	**5.25**	**5.37**	**5.37**
Alabama	1.72	4.10	6.24	6.11	6.28	6.92	6.54
Kentucky	1.30	3.08	5.27	4.63	4.79	4.73	4.76
Mississippi	1.41	3.39	5.34	5.48	5.30	5.16	4.82
Tennessee	1.33	2.94	4.96	4.69	4.75	4.88	5.26
West South Central	**1.35**	**3.00**	**5.23**	**5.21**	**5.45**	**5.35**	**5.45**
Arkansas	1.12	2.36	4.35	4.85	4.98	4.85	5.03
Louisiana	1.32	3.07	5.48	5.85	6.00	5.69	5.50
Oklahoma	1.15	2.38	4.45	4.41	4.65	4.66	4.92
Texas	1.47	3.30	5.59	5.38	5.66	5.59	5.69
Mountain	**1.34**	**3.23**	**5.29**	**4.99**	**4.96**	**4.96**	**4.96**
Arizona	1.83	3.74	6.66	6.75	6.64	6.85	6.99
Colorado	1.16	3.21	5.11	4.64	4.49	4.43	4.49
Idaho	2.25	4.94	6.56	4.93	4.85	5.03	5.09
Montana	1.18	2.88	4.51	3.92	4.10	4.07	4.25
Nevada	1.81	3.97	6.55	5.58	5.53	5.46	5.43
New Mexico	1.37	3.21	5.69	5.44	5.32	5.13	4.65
Utah	1.12	2.68	4.52	4.74	4.87	5.07	5.07
Wyoming	0.99	2.94	4.97	4.55	4.70	4.57	4.56
Pacific	**1.58**	**3.51**	**5.56**	**5.42**	**5.57**	**5.97**	**5.72**
Alaska	1.48	1.73	2.85	3.67	3.84	4.23	3.80
California	1.52	3.38	5.51	5.43	5.62	6.13	5.83
Hawaii	7.97	14.58	17.69	15.41	16.30	18.04	17.92
Oregon	2.41	5.36	6.73	6.01	6.13	5.97	5.96
Washington	2.12	4.91	6.44	5.33	4.96	4.51	4.80

R–Revised.

TABLE 9-8
AVERAGE ANNUAL RESIDENTIAL GAS BILLS, BY STATE, 1975-1992

($/Customer)

Division and State	1975	1980	1985	1989	1990	1991	1992
United States	**$206**	**$401**	**$585**	**$534**	**$502**	**$508**	**$518**
New England	**274**	**493**	**702**	**699**	**708**	**692**	**791**
Connecticut	285	505	762	781	778	744	879
Maine	165	274	390	388	411	399	472
Massachusetts	276	494	684	680	689	684	773
New Hampshire	234	444	688	672	687	599	679
Rhode Island	266	474	696	659	693	675	763
Vermont	261	661	687	683	660	685	794
Middle Atlantic	**231**	**458**	**679**	**671**	**635**	**633**	**702**
New Jersey	229	439	640	642	570	583	666
New York	217	441	663	655	640	625	699
Pennsylvania	257	501	736	722	682	689	739
East North Central	**257**	**535**	**787**	**688**	**606**	**614**	**630**
Illinois	266	562	792	669	629	623	639
Indiana	220	449	673	659	596	588	600
Michigan	268	545	879	721	611	625	642
Ohio	259	547	766	706	589	609	629
Wisconsin	238	497	744	657	580	605	613
West North Central	**209**	**405**	**615**	**513**	**488**	**508**	**501**
Iowa	215	408	619	534	493	521	534
Kansas	145	301	457	427	427	448	445
Minnesota	255	450	743	580	522	541	550
Missouri	215	449	617	509	504	513	487
Nebraska	195	350	588	487	458	489	467
North Dakota	245	489	696	543	504	568	540
South Dakota	203	365	651	519	488	506	493
South Atlantic	**194**	**386**	**524**	**506**	**484**	**469**	**501**
Delaware	219	388	552	564	501	459	538
District of Columbia	230	472	719	732	712	608	672
Florida	107	194	238	236	231	247	277
Georgia	181	393	526	472	488	479	490
Maryland	225	425	607	575	539	505	553
North Carolina	188	388	491	521	428	427	477
South Carolina	151	319	380	426	385	401	444
Virginia	230	423	596	612	545	539	580
West Virginia	219	473	650	587	653	603	634
East South Central	**153**	**345**	**465**	**442**	**417**	**429**	**439**
Alabama	157	356	460	439	448	461	471
Kentucky	177	401	549	505	446	465	480
Mississippi	122	291	393	395	364	348	337
Tennessee	140	299	423	409	386	405	423
West South Central	**130**	**253**	**392**	**390**	**362**	**366**	**361**
Arkansas	128	226	379	434	389	390	403
Louisiana	108	236	362	374	356	338	332
Oklahoma	138	246	424	404	386	403	393
Texas	135	265	394	385	353	362	355
Mountain	**175**	**336**	**498**	**431**	**424**	**443**	**413**
Arizona	141	221	363	331	338	341	335
Colorado	171	385	509	438	430	446	425
Idaho	249	393	534	390	359	414	367
Montana	203	363	558	463	446	468	453
Nevada	204	347	480	394	381	382	346
New Mexico	173	318	480	435	446	440	403
Utah	201	373	610	540	519	590	521
Wyoming	160	378	610	509	506	513	458
Pacific	**174**	**286**	**420**	**360**	**363**	**381**	**337**
Alaska	328	375	586	714	763	785	730
California	166	272	405	347	351	370	327
Hawaii	232	364	360	297	314	332	325
Oregon	258	428	562	460	463	484	405
Washington	259	469	605	497	448	442	397

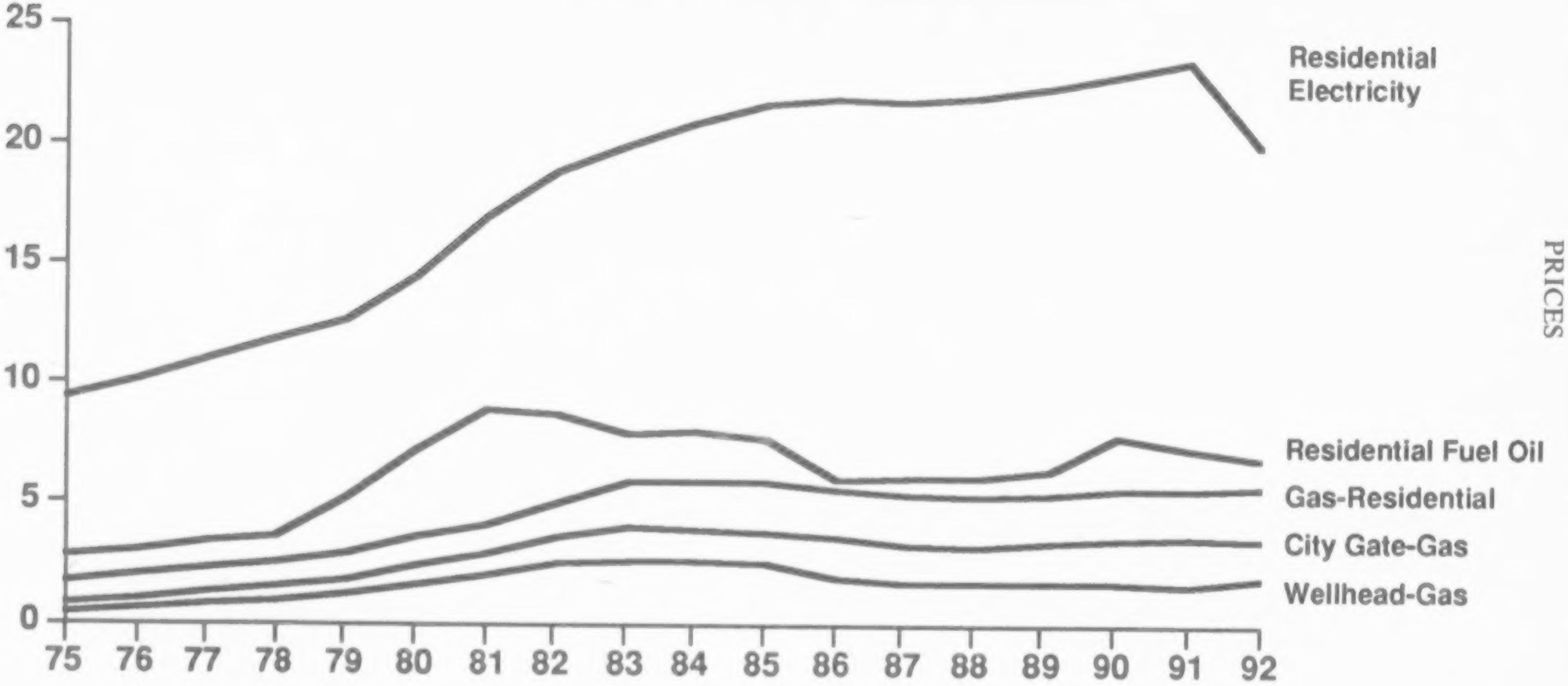
TABLE 9-9
AVERAGE RESIDENTIAL CONSUMPTION AND COSTS
1968–1992[a]

	Gas				
Year	Consumption (MMBtu/ Customer)	Annual Bill ($/Customer)	Price ($/MMBtu)	Electric Price ($/MMBtu)	Number 2 Fuel Oil Price ($/MMBtu)
1968	124.1	124.48	1.00	6.21	1.25
1969	128.4	130.08	1.01	6.13	1.28
1970	129.2	136.69	1.06	6.15	1.33
1971	129.9	145.28	1.12	6.42	1.41
1972	130.4	154.56	1.19	6.71	1.42
1973	124.5	155.73	1.25	6.98	1.64
1974	119.6	169.82	1.42	8.29	2.60
1975	121.9	206.24	1.69	9.40	2.81
1976	121.3	240.48	1.98	10.11	3.01
1977	118.7	276.87	2.33	11.08	3.42
1978	121.0	307.40	2.53	11.81	3.66
1979	118.6	346.39	2.92	12.69	5.24
1980	111.0	400.84	3.61	14.45	7.21
1981	104.4	434.43	4.16	17.00	8.95
1982	107.1	531.96	4.97	18.90	8.70
1983	99.1	583.00	5.88	20.01	7.92
1984	102.0	605.80	5.94	20.93	8.08
1985	98.3	584.90	5.95	21.69	7.78
1986	94.0	531.51	5.65	21.86	6.02
1987	92.6	498.75	5.39	21.83	6.13
1988	97.5	515.56	5.29	21.95	6.10
1989	98.0	534.33	5.45	22.42	6.40
1990	89.7	501.98	5.59	22.92	7.84
1991	89.9	508.13	5.66	23.53	7.34
1992	91.1	518.24	5.69	19.96[P]	6.93

a. Prices given are for total usage.
P–Preliminary.
Sources: For electric price, Edison Electric Institute *Statistical Yearbook*. For oil price, Bureau of Labor Statistics.

CHART 9-1

AVERAGE PRICES OF FUELS & ELECTRICITY
(DOLLARS/MILLION BTU)



REFERENCE: TABLES 9-5, 9-9

TABLE 9-10
AVERAGE RESIDENTIAL GAS PRICES BY CENSUS DIVISION HEATING SEASON—NOVEMBER THRU MARCH

($/MMBtu)

	1985–86	1986–87	1987–88	1988–89	1989–90	1990–91	1991–92[a]
Total U.S.	$5.54	$5.16	$4.98	$5.36	$5.32	$5.36	$5.33
NE	7.41	6.69	6.50	6.88	7.27	7.73	7.72
MA	6.75	6.18	5.71	6.06	6.36	6.34	6.51
ENC	5.27	4.84	4.69	4.92	4.77	4.82	4.62
WNC	4.82	4.19	4.30	4.35	4.64	4.44	4.58
SA	6.35	6.21	5.58	5.93	6.11	6.05	6.09
ESC	5.08	4.89	4.89	4.86	4.94	5.24	4.96
WSC	4.83	4.48	4.53	4.85	5.00	5.05	5.15
M	5.01	4.61	4.52	4.57	4.72	4.52	4.43
P	5.54	4.97	5.11	5.30	5.32	5.70	5.72

[a] Data used for 1992 were based on the *Quarterly Report of Gas Industry Operations.*

TABLE 9-11
AVERAGE GAS CONSUMPTION BY HOUSEHEATING CUSTOMERS BY CENSUS DIVISION HEATING SEASON—NOVEMBER THRU MARCH

(MMBtu/Customer)

	1985–86	1986–87	1987–88	1988–89	1989–90	1990–91	1991–92[a]
Total U.S.	72.9	70.1	73.8	70.9	71.6	69.8	67.3
NE	84.8	84.2	86.5	86.3	86.0	71.5	80.5
MA	97.2	97.4	93.7	97.7	98.4	90.9	76.7
ENC	103.4	94.3	100.7	97.2	95.5	92.5	93.9
WNC	86.5	71.9	82.3	81.1	77.6	77.5	75.8
SA	61.6	61.5	64.7	62.3	65.8	66.1	64.0
ESC	60.3	60.2	63.7	62.0	65.7	65.9	59.2
WSC	48.6	53.9	57.4	54.2	51.7	49.6	47.0
M	58.7	58.5	63.9	61.0	59.4	65.0	58.8
P	41.3	41.7	42.1	43.1	41.6	41.1	39.8

[a] Data used for 1992 were based on the *Quarterly Report of Gas Industry Operations.*

TABLE 9-12
AVERAGE GAS BILL FOR HOUSEHEATING CUSTOMERS BY CENSUS DIVISION HEATING SEASON—NOVEMBER THRU MARCH

($/Customer)

	1985–86	1986–87	1987–88	1988–89	1989–90	1990–91	1991–92[a]
Total U.S.	$404	$362	$368	$380	$381	$374	$359
NE	628	563	563	594	626	553	622
MA	656	602	535	593	626	576	500
ENC	545	457	472	478	455	446	434
WNC	417	301	354	353	359	344	347
SA	391	382	361	370	402	400	390
ESC	306	294	312	301	324	346	294
WSC	235	241	260	263	258	250	242
M	294	269	289	279	280	294	260
P	208	208	215	229	221	234	228

[a] Data used for 1992 were based on the *Quarterly Report of Gas Industry Operations.*

TABLE 9-13
GAS UTILITY INDUSTRY AVERAGE PRICES, FOR GAS USED FOR ELECTRIC GENERATION, BY STATE, 1985–1992

($/MMBtu)

Division and State	1985	1986	1988	1989	1990	1991	1992
United States	**$3.81**	**$2.72**	**$2.55**	**$2.69**	**$2.65**	**$2.53**	**$2.56**
New England	**3.54**	**2.36**	**2.41**	**2.50**	**2.40**	**2.36**	**2.67**
Connecticut	a	b	b	3.14	3.52	4.52	3.30
Maine	a	a	a	a	a	a	a
Massachusetts	3.54	2.32	2.43	2.49	2.35	2.22	2.58
New Hampshire	a	a	2.40	b	a	a	3.91
Rhode Island	3.57	3.34	2.18	2.66	b	2.86	2.93
Vermont	a	a	a	2.68	2.45	1.88	2.13
Middle Atlantic	**3.92**	**2.91**	**2.58**	**2.80**	**2.82**	**2.58**	**2.64**
New Jersey	4.05	2.88	2.51	2.82	2.68	2.62	2.70
New York	3.86	2.91	2.77	2.66	2.90	2.49	2.51
Pennsylvania	5.04	4.66	2.74	4.03	3.80	3.15	4.07
East North Central	**4.91**	**4.36**	**3.49**	**3.44**	**2.43**	**3.07**	**3.60**
Illinois	5.17	4.62	3.37	3.53	2.41	3.84	4.32
Indiana	4.14	3.82	3.71	3.72	3.40	3.28	b
Michigan	4.96	4.31	4.03	3.58	3.70	3.61	4.11
Ohio	4.86	4.47	3.26	3.73	3.23	3.13	3.03
Wisconsin	4.17	3.67	3.42	2.93	1.71	2.45	2.95
West North Central	**3.18**	**2.77**	**2.67**	**2.61**	**2.78**	**2.23**	**2.25**
Iowa	3.82	3.54	2.66	2.75	3.23	2.25	2.86
Kansas	2.89	2.45	2.55	2.88	3.04	2.73	1.85
Minnesota	3.90	3.31	2.47	1.80	2.02	1.90	2.11
Missouri	3.26	2.76	3.09	3.46	3.51	3.09	3.09
Nebraska	3.50	3.26	2.60	2.60	2.55	2.16	2.38
North Dakota	b	b	b	b	b	b	b
South Dakota	b	b	4.21	2.16	a	a	1.15
South Atlantic	**3.33**	**2.12**	**2.10**	**2.50**	**2.43**	**2.41**	**2.58**
Delaware	3.99	2.50	2.30	2.68	2.67	2.76	2.76
District of Columbia	a	a	a	a	a	a	a
Florida	3.32	2.10	2.09	2.49	2.41	2.41	2.70
Georgia	4.21	2.07	2.79	2.99	2.84	2.75	2.66
Maryland	b	2.54	2.42	2.55	2.34	2.28	2.39
North Carolina	b	2.65	3.37	3.54	3.08	2.83	2.78
South Carolina	4.50	3.47	3.37	3.54	3.42	2.65	2.69
Virginia	a	2.84	a	a	3.74	4.24	b
West Virginia	3.62	2.11	2.25	2.60	2.85	2.89	2.37
East South Central	**2.81**	**2.74**	**2.50**	**1.36**	**3.51**	**2.34**	**1.98**
Alabama	4.05	3.53	2.50	3.09	3.53	2.48	1.78
Kentucky	a	a	a	a	a	a	a
Mississippi	2.81	2.73	2.75	1.29	3.08	2.12	1.98
Tennessee	b	b	2.36	2.65	b	2.38	b
West South Central	**3.48**	**2.71**	**2.41**	**2.45**	**2.36**	**2.30**	**2.45**
Arkansas	3.61	2.80	3.60	b	a	b	a
Louisiana	3.57	2.89	1.79	1.85	2.09	2.02	2.06
Oklahoma	2.75	3.53	2.77	2.51	2.40	1.78	1.77
Texas	3.49	2.70	2.38	2.49	2.36	2.31	2.49
Mountain	**3.63**	**3.16**	**2.48**	**1.96**	**2.05**	**1.29**	**1.60**
Arizona	3.59	2.81	1.79	1.89	1.82	1.20	1.18
Colorado	3.62	3.08	2.35	2.21	2.48	3.14	1.98
Idaho	a	a	a	a	a	a	a
Montana	0.76	b	4.44	4.11	b	b	b
Nevada	4.21	3.86	2.95	3.45	3.24	3.44	3.67
New Mexico	3.41	3.42	3.22	3.66	3.54	3.78	1.64
Utah	3.83	2.39	2.82	3.12	2.49	b	b
Wyoming	4.60	2.88	2.65	2.65	2.65	a	a
Pacific	**4.40**	**2.88**	**2.83**	**3.12**	**3.18**	**3.27**	**3.05**
Alaska	1.69	1.97	2.13	2.30	2.47	2.91	2.47
California	4.48	2.91	2.85	3.15	3.21	3.29	3.06
Hawaii	a	a	a	a	a	a	a
Oregon	a	a	a	b	b	b	a
Washington	b	b	b	1.68	1.98	4.18	9.83

a. No sales reported.
b. Less than 0.05 trillion Btu in sales.

TABLE 9-15
GAS UTILITY INDUSTRY AVERAGE PRICE OF GAS TRANSPORTED TO END–USERS, BY STATE AND CLASS OF SERVICE, 1992

($/MMBtu)

State/Region	Total	Class of Service Commercial	Industrial	Electric Generation	Other
United States	**$0.45**	**$0.89**	**$0.41**	**$0.42**	**$0.24**
New England	**0.40**	**0.54**	**0.84**	**0.18**	**0.52**
Connecticut	0.39	0.52	0.48	0.22	b
Maine	0.20	b	b	b	b
Massachusetts	0.44	0.65	0.28	0.14	0.52
New Hampshire	b	b	d	b	b
Rhode Island	c	b	0.10	0.20	b
Vermont	b	b	b	b	b
Middle Atlantic	**0.68**	**1.09**	**0.67**	**0.29**	**0.76**
New Jersey	0.69	1.28	0.78	0.32	b
New York	0.62	0.82	0.68	0.24	0.78
Pennsylvania	0.72	1.46	0.64	0.34	0.44
East North Central	**0.54**	**0.89**	**0.44**	**0.38**	**b**
Illinois	0.82	1.17	0.60	0.35	b
Indiana	0.30	1.23	0.29	0.42	b
Michigan	0.46	0.61	0.42	0.43	b
Ohio	0.48	0.75	0.44	b	b
Wisconsin	0.46	0.57	0.43	b	b
West North Central	**0.36**	**0.70**	**0.31**	**0.35**	**0.27**
Iowa	0.32	0.14	0.33	0.31	b
Kansas	0.43	0.98	0.38	0.63	0.22
Minnesota	0.16	0.35	0.14	1.37	b
Missouri	0.51	0.68	0.43	0.25	1.03
Nebraska	0.38	0.70	0.32	0.17	b
North Dakota	0.81	0.94	0.78	b	0.55
South Dakota	0.28	0.44	0.19	0.07	0.53
South Atlantic	**0.43**	**0.58**	**0.42**	**0.43**	**0.24**
Delaware	0.47	b	b	b	b
District of Columbia	0.86	0.86	0.47	b	b
Florida	0.40	0.15	0.39	0.43	0.24
Georgia	0.41	0.61	0.40	b	b
Maryland	0.44	0.39	0.45	b	b
North Carolina	0.81	1.08	0.80	0.70	b
South Carolina	0.72	b	0.72	b	b
Virginia	0.27	0.53	0.31	0.03	b
West Virginia	0.37	1.75	0.28	b	b
East South Central	**0.34**	**0.65**	**0.37**	**0.18**	**0.23**
Alabama	0.35	0.72	0.34	d	0.24
Kentucky	0.50	0.52	0.50	b	b
Mississippi	0.20	0.19	0.19	0.18	0.23
Tennessee	0.34	0.38	0.34	0.26	b
West South Central	**0.19**	**0.48**	**0.18**	**0.21**	**0.20**
Arkansas	0.54	0.76	0.52	0.23	b
Louisiana	0.17	0.17	0.16	0.16	0.18
Oklahoma	0.40	0.69	0.40	0.41	0.08
Texas	0.14	c	0.13	0.15	0.26
Mountain	**0.34**	**0.63**	**0.31**	**0.33**	**0.44**
Arizona	0.80	1.32	0.88	0.27	b
Colorado	0.36	b	0.38	0.09	b
Idaho	0.44	b	0.44	b	b
Montana	0.25	0.70	0.21	0.72	0.43
Nevada	0.40	0.68	0.41	0.35	c
New Mexico	0.51	1.16	0.39	0.55	b
Utah	0.14	0.11	0.14	0.10	b
Wyoming	0.10	1.00	0.10	b	b
Pacific	**0.79**	**1.15**	**0.79**	**0.71**	**d**
Alaska	0.42	b	b	0.42	b
California	0.84	1.16	0.84	0.75	d
Hawaii	b	b	b	b	b
Oregon	0.47	1.06	0.55	0.19	b
Washington	0.44	0.89	0.45	0.27	b

a. Represents transportation revenues delivered to end users divided by transportation volumes delivered to end users. Transportation contracts vary widely in terms and conditions resulting in large variances in average prices. May include demand charges for various transportation services.

b. No transportation volumes delivered.

c. Less than 0.05 trillion Btu in sales.

d. Did not meet publication standards.

TABLE 9-16
NATURAL GAS SPOT MARKET PRICES[a]
1985–1993
($/MMBtu)

Year		Low	Average[b]	Median	High
1985[c]		$2.34	$2.40	$2.39	$2.51
1986		1.41	1.61	1.64	1.73
1987		1.22	1.42	1.45	1.52
1988		1.26	1.59	1.62	1.75
1989		1.23	1.58	1.61	1.74
1990		1.33	1.60	1.63	1.75
1991		1.14	1.40	1.42	1.49
1992					
	January	1.35	1.61	1.63	1.70
	February	0.95	1.00	1.00	1.05
	March	1.10	1.17	1.15	1.20
	April	1.15	1.33	1.35	1.40
	May	1.25	1.48	1.50	1.60
	June	1.35	1.61	1.63	1.75
	July	1.20	1.42	1.45	1.50
	August	1.55	1.79	1.80	1.90
	September	1.65	1.89	1.90	1.95
	October	2.10	2.57	2.63	2.70
	November	1.80	2.20	2.23	2.45
	December	1.90	2.13	2.15	2.30
1993[c]	January	1.80	1.93	1.90	2.05
	February	1.50	1.59	1.60	1.65
	March	1.75	1.84	1.85	1.95
	April	1.80	2.09	2.13	2.20
	May	2.25	2.53	2.55	2.70
	June	1.70	1.89	1.90	2.10
	July	1.60	1.86	1.90	2.00
	August	1.70	1.96	2.00	2.10
	September	1.90	2.24	2.30	2.35
	October	1.75	1.95	1.95	2.10
	November	1.75	1.99	2.05	2.15

a. Prices represent Natural Gas Clearinghouse estimates of the median price for one month spot transactions at various recept points. These estimates are based upon quotes by industrial end users and local distribution companies.
b. Unweighted.
c. January–November only.
Source: Natural Gas Clearinghouse Inc. *Survey of Sport Market Prices.*

SECTION 10
ENERGY CONSUMPTION

	1992	% Change 92/91
Average Annual Consumption		
(Millions of Btu per Customer)		
Total	176.5	+ 1.4
Residential	91.1	+ 1.4
Commercial	502.4	− 1.2
Industrial	16,753.7	+ 6.8
Other	5,052.4	+12.7

Note: Consumption includes all natural gas deliveries to end users by ali segments of the industry (producers, gatherers, pipelines, local distribution companies) along with pipeline fuel and lease and plant fuel. For reporting purposes in *Gas Facts*, utility sales includes only system sales by local distribution companies and pipeline companies. This data can be found in Tables 6-1 thru 6-8, 6-13 and 6-14. Transportation to end users is gas owned by the end user and delivered to that end-user by local distribution companies or pipeline companies. See Table 6-4. Deliveries to end users includes utility sales and transportation volumes delivered to end users. This data is detailed in Tables 6-9, 6-10 and 6-11. Consumption figures can be found on Tables 10-1 thru 10-4. Consumption per customer data in Tables 10-5, 10-6 and 10-8 are calculating using utility sales only.

TABLE 10-1

ANNUAL CONSUMPTION OF ENERGY RESOURCES IN THE UNITED STATES, BY MAJOR SOURCES, BY CONSUMING SECTORS, 1985–1992[a]

(Trillions of Btu)

Consuming Sectors	Coal and Coke	Natural gas dry[b]	Petroleum[c]	Hydropower[d]	Nuclear power[d]	Other[e]	Total gross energy inputs[f]	Utility electricity purchased[g]	Total Sector energy inputs
Household and commercial:									
1985	176	7,079	2,522	—	—	—	9,777	5,061	14,838
1986	176	6,825	2,555	—	—	—	9,556	5,235	14,791
1987^{R}	162	6,954	2,587	—	—	—	9,703	5,443	15,148
1988^{R}	168	7,513	2,600	—	—	—	10,281	5,724	16,005
1989^{R}	146	7,731	2,525	—	—	—	10,403	5,859	16,261
1990^{R}	156	7,225	2,173	—	—	—	9,554	6,015	15,569
1991^{R}	141	7,511	2,154	—	—	—	9,806	6,180	15,986
1992^{P}	142	7,707	2,217	—	—	—	10,066	6,096	16,162
Industrial:									
1985	2,760[h]	7,080	7,805	33	—	—	17,678	2,855	20,533
1986^{R}	2,640[h]	6,690	7,920	33	—	—	17,283	2,834	20,117
1987^{R}	2,673[h]	7,323	8,150	33	—	—	18,179	2,928	21,107
1988^{R}	2,828[h]	7,696	8,430	33	—	—	18,983	3,059	22,046
1989^{R}	2,787[h]	8,131	8,133	33	—	—	19,124	3,158	22,282
1990^{R}	2,756[h]	8,502	8,319	33	—	—	19,500	3,226	22,726
1991^{R}	2,601[h]	8,640	8,057	33	—	—	19,331	3,230	22,561
1992^{P}	2,584	9,069	8,528	33	—	—	20,214	3,293	23,507
Transportation:[i]									
1985	—	519	19,504	—	—	—	20,023	13	20,036
1986	—	499	20,269	—	—	—	20,768	13	20,781
1987^{R}	—	535	20,871	—	—	—	21,406	13	21,419
1988^{R}	—	632	21,629	—	—	—	22,261	14	22,275
1989^{R}	—	649	21,868	—	—	—	22,517	14	22,531
1990^{R}	—	680	21,810	—	—	—	22,490	14	22,504
1991^{R}	—	620	21,456	—	—	—	22,076	14	22,090
1992^{P}	—	727	21,775	—	—	—	22,492	14	22,506
Electricity generation, utilities									
1985^{R}	14,542	3,160	1,090	3,365	4,149	213	26,519	(7,929)	—
1986^{R}	14,444	2,691	1,452	3,413	4,471	232	26,703	(8,082)	—
1987^{R}	15,173	2,935	1,257	3,084	4,906	245	27,600	(8,384)	—
1988^{R}	15,850	2,709	1,563	2,630	5,661	235	28,648	(8,797)	—
1989^{R}	15,988	2,871	1,685	2,848	5,677	217	29,286	(9,031)	—
1990^{R}	16,189	2,882	1,250	2,914	6,161	202	29,598	(9,255)	—
1991^{R}	16,028	2,856	1,178	3,083	6,579	192	29,915	(9,424)	—
1992^{P}	16,185	2,831	947	2,756	6,646	192	29,551	(9,403)	—
Total gross energy inputs[j]**:**									
1985^{R}	17,478	17,834	30,922	3,398	4,149	199	73,980	—	55,407
1986^{R}	17,262	16,708	32,196	3,446	4,471	215	74,298	—	55,689
1987^{R}	18,008	17,745	32,865	3,117	4,906	253	76,894	—	57,674
1988^{R}	18,846	18,552	34,222	2,662	5,661	274	80,218	—	60,326
1989^{R}	18,925	19,384	34,211	2,881	5,677	248	81,326	—	61,074
1990^{R}	19,101	19,296	33,553	2,946	6,161	207	81,265	—	60,799
1991^{R}	18,770	19,628	32,845	3,115	6,579	200	81,137	—	60,637
1992^{P}	18,916	20,323	33,467	2,789	6,646	219	82,360	—	62,175

[a] Gross energy is the total of inputs into the economy of the primary fuels (including imports) or their derivatives, plus the generation of hydro, nuclear power and other (converted to equivalent energy inputs).

[b] Excludes natural gas liquids.

[c] Petroleum products including still gas, liquefied refinery gas and natural gas liquids.

[d] Outputs and hydropower (adjusted for net imports or net exports) are converted to theoretical energy inputs using 10,320 Btu per net KWH for 1987. Energy input for nuclear power converted at an average heat rate of 10,807 Btu per net KWH. Excludes inputs for power generation by non-utility plants, which are included within the other consuming sectors.

[e] Includes geothermal power and electricity produced from wood and waste.

[f] Gross energy resource inputs with electricity generation shown as separate consuming sector.

[g] Utility electricity generated and imported, distributed to the other consuming sectors as energy resource inputs.

[h] Includes net imports of coke of −13 trillion Btu in 1985, −17 trillion Btu in 1986, 9 trillion Btu in 1987, 40 trillion Btu in 1988, 30 trillion Btu in 1989, 5 trillion Btu in 1990, 9 trillion Btu in 1991, and 27 trillion Btu in 1992.

[i] Includes bunkers and military transportation.

[j] Total gross inputs may not add due to "unaccounted for" units.

R–Revised. P–Preliminary.

Source: U.S. Department of Energy, Energy Information Administration, *Monthly Energy Review*.

TABLE 10-2
ANNUAL CONSUMPTION OF FOSSIL ENERGY RESOURCES, AND ELECTRICITY FROM HYDROPOWER AND NUCLEAR POWER, IN THE UNITED STATES, 1972–1992[a]

(Trillions of Btu)

Year	Natural Gas Dry[b,c]	Natural Gas Liquids	Crude Petroleum and Products	Bituminous Coal and Lignite[d]	Anthracite Coal	Hydro-power[e]	Nuclear[e]	Other[f]	Grand Total Energy
1972	22,698	2,706	30,260	12,273	150	2,946	576	g	71,609
1973[R]	22,512	2,652	32,188	12,971	h	3,010	910	39	74,282
1974[R]	21,732	2,565	30,890	12,663	h	3,309	1,272	112	72,543
1975[R]	19,948	2,484	30,247	12,663	h	3,219	1,900	86	70,546
1976[R]	20,345	i	35,175	13,584	h	3,066	2,111	81	74,362
1977[R]	19,931	i	37,122	13,922	h	2,515	2,702	97	76,289
1978[R]	20,000	i	37,965	13,765	h	3,142	3,024	193	78,089
1979[R]	20,666	i	37,122	15,039	h	3,141	2,776	152	78,897
1980[R]	20,394	i	34,201	15,423	h	3,118	2,739	79	75,954
1981	19,928	i	31,931	15,907	h	3,105	3,008	111	73,990
1982	18,505	i	30,231	15,322	h	3,572	3,131	86	70,847
1983	17,357	i	30,054	15,894	h	3,899	3,203	118	70,525
1984[R]	18,507	i	31,051	17,071	h	3,800	3,553	163	74,145
1985[R]	17,834	i	30,922	17,478	h	3,398	4,149	199	73,980
1986	16,708	i	32,196	17,261	h	3,446	4,471	215	74,297
1987[R]	17,745	i	32,865	18,008	h	3,117	4,906	253	76,894
1988[R]	18,552	i	34,222	18,846	h	2,662	5,661	274	80,218
1989[R]	19,384	i	34,211	18,925	h	2,881	5,677	248	81,326
1990[R]	19,296	i	33,553	19,101	h	2,946	6,161	207	81,264
1991[R]	19,628	i	32,845	18,770	h	3,115	6,579	200	81,137
1992[P]	20,323	i	33,467	18,916	h	2,789	6,646	219	82,360

a. Represents production minus exports plus imports, and adjusted for change in inventories.

b. The Btu value per cubic foot for natural gas dry for 1966 is 1,033; 1967 1,032; 1968–1971 1,031; 1972 1,027; 1973 1,021; 1974 1,024; 1975 1,021; 1976 1,020; 1977 1,021; 1978 1,019; 1979 1,021; 1980 1,026; 1981 1,027; 1982 1,028; 1983 and 1985 1,031; 1984 1030; 1986–1987 1029; 1988 1,027; 1989 1028; 1990 1031; 1991 1031; 1992 1030.

c. Marketed production minus shrinkage caused by liquids extraction.

d. Includes net imports of coke of −7 trillion Btu in 1973, 56 trillion Btu in 1974, 14 trillion Btu in 1975, 15 trillion Btu in 1977, 125 trillion Btu in 1978, 63 trillion Btu in 1979, −35 trillion Btu in 1980, −16 trillion Btu in 1981, −22 trillion Btu in 1982, −16 trillion Btu in 1983, −11 trillion in 1984, −13 trillion in 1985, −17 trillion Btu in 1986, 9 trillion Btu in 1987, −40 trillion Btu in 1988, 30 million Btu in 1989, 5 trillion Btu in 1990, 9 trillion Btu in 1991, and 27 trillion Btu in 1992.

e. See Table 3-1 for procedures used to determine Btu equivalents.

f. Includes energy from geothermal, wood or waste products.

g. Not available.

h. Included in "Bituminous Coal and Lignite."

i. Included in "Crude Petroleum and Products."

R-Revised. P-Preliminary.

Source: Prior to 1977, U.S. Bureau of Mines, 1977 and beyond, U.S. Department of Energy, Energy Information Administration, *Monthly Energy Review*.

ENERGY CONSUMPTION

TABLE 10-3
ANNUAL CONSUMPTION OF FOSSIL ENERGY RESOURCES, AND ELECTRICITY FROM HYDROPOWER AND NUCLEAR POWER, IN THE UNITED STATES, 1972–1992

(Percentage)

Year	Natural Gas Dry	Natural Gas Liquids	Crude Petroleum and Products	Bituminous Coal and Lignite	Anthracite Coal	Hydro-power	Nuclear	Other	Grand Total Energy
1972	31.7	3.8	42.3	17.1	0.2	4.1	0.8	a	100.0
1973^{R}	30.3	3.6	43.3	17.5	b	4.1	1.2	0.0	100.0
1974	30.0	3.4	42.6	17.5	b	4.6	1.8	0.1	100.0
1975	28.3	3.4	42.9	18.0	b	4.6	2.7	0.1	100.0
1976	27.4	c	47.3	18.3	b	4.1	2.8	0.1	100.0
1977	26.1	c	48.7	18.3	b	3.3	3.5	0.1	100.0
1978^{R}	25.6	c	48.6	17.7	b	4.0	3.9	0.2	100.0
1979	26.2	c	47.1	19.1	b	4.0	3.5	0.1	100.0
1980	26.9	c	45.0	20.3	b	4.1	3.6	0.1	100.0
1981	26.9	c	43.2	21.5	b	4.2	4.1	0.2	100.0
1982	26.1	c	42.7	21.6	b	5.0	4.4	0.1	100.0
1983	24.6	c	42.6	22.5	b	5.5	4.5	0.2	100.0
1984	25.0	c	41.9	23.0	b	5.1	4.8	0.2	100.0
1985^{R}	24.1	c	41.8	23.6	b	4.6	5.6	0.3	100.0
1986	22.5	c	43.4	23.3	b	4.6	6.0	0.3	100.0
1987^{R}	23.1	c	42.7	23.4	b	4.1	6.4	0.3	100.0
1988	23.1	c	42.7	23.5	b	3.3	7.1	0.3	100.0
1989	23.8	c	42.1	23.3	b	3.5	7.0	0.3	100.0
1990	23.8	c	41.2	23.5	b	3.6	7.6	0.3	100.0
1991^{R}	24.2	c	40.5	23.1	b	3.8	8.1	0.2	100.0
1992^{P}	24.7	c	40.6	23.0	b	3.4	8.1	0.2	100.0

a. Not available.
b. Included in "Bituminous Coal and Lignite."
c. Included in "Crude Petroleum and Products."
R–Revised. P– Preliminary.
Source: Same as Table 10-2.

TABLE 10-4
ENERGY CONSUMPTION PER CAPITA IN THE UNITED STATES, 1972–1992

Year	Total Energy Consumed (Trillions of Btu)	Natural Gas Consumed (Trillions of Btu)	Resident Population (Thousands)	Energy Consumed Per Capita (Millions of Btu)	Natural Gas Consumed Per Capita (Millions of Btu)	Gross Domestic Product (Billions of 1987 $)	Total Energy Per Dollar of GDP (Thousands of Btu/1987 $)	Index of Industrial Production (1987 = 100)
1972	71,609	22,698	209,284	342	108	3,107	23.0	68.3
1973	74,282	22,505	211,357	351	106	3,269	22.7	73.8
1974	72,543	21,725	213,342	340	102	3,248	22.3	72.7
1975^{R}	70,546	19,948	215,465	327	93	3.222	21.9	66.3
1976	74,362	20,345	217,563	342	94	3,381	22.0	72.4
1977	76,289	19,931	219,760	347	91	3,533	21.6	78.2
1978	78,089	20,000	222,095	352	90	3,704	21.1	82.6
1979	78,897	20,666	224,567	351	92	3,797	20.8	85.7
1980	75,955	20,394	226,505	335	90	3,776	20.1	84.1
1981	73,990	19,928	229,307	323	87	3,843	19.3	85.7
1982	70,847	18,505	231,507	306	80	3,760	18.8	81.9
1983	70,525	17,357	233,974	301	74	3,907	18.1	84.9
1984^{R}	74,145	18,507	236,636	313	78	4,149	17.9	92.8
1985^{R}	73,980	17,834	238,885	310	75	4,280	17.3	94.3
1986^{R}	74,297	16,708	241,596	308	69	4,405	16.9	95.3
1987^{R}	76,894	17,745	243,419	316	73	4,540	16.9	100.0[a]
1988^{R}	80,218	18,552	245,807	326	75	4,719	17.0	104.1
1989^{R}	81,326	19,384	248,251	328	78	4,837	16.8	106.1
1990^{R}	81,263	19,296	248,710	328	78	4,885	16.6	106.1
1991^{R}	81,137	19,628	248,710	326	79	4,849	16.7	104.1
1992^{P}	82,360	20,323	255,082	323	80	4,923	16.7	106.6

a. Data from 1987 forward is not comparable to prior years.
R–Revised. P–Preliminary.
Source: U.S. Department of Energy, U.S. Bureau of the Census and the Federal Reserve Board.

TABLE 9-14
AVERAGE CONSUMER PRICE INDEXES, 1972-1992[a]

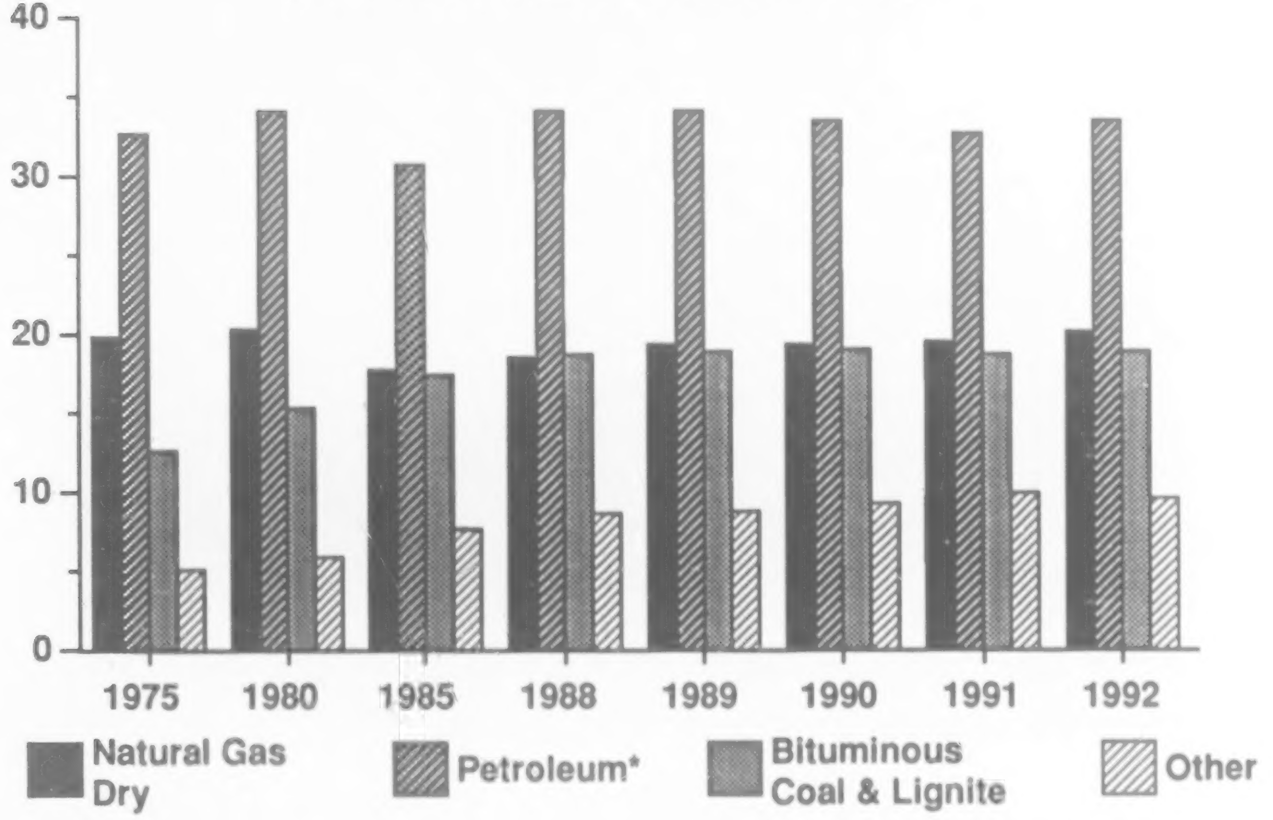
(1982–1984 = 100)

Year	All Items	Total Food	Apparel and Upkeep	Shelter[b]	Gas and Electricity	Fuel Oil and Other Utilities[c]	House Furnishing[d] and Operation	Trans-portation	Medical Care	Personal Care	Other Goods and Services[e]
1972	41.8	42.7	62.3	38.7	28.5	32.5	49.7	39.9	37.3	46.0	44.7
1973	44.4	49.7	64.6	40.5	29.9	34.3	51.1	41.2	38.8	48.1	46.4
1974	49.3	57.1	69.4	44.4	34.5	40.7	56.8	45.8	42.4	52.8	49.8
1975	53.8	61.8	72.5	48.8	40.1	45.4	63.4	50.1	47.5	57.9	53.9
1976	56.9	63.1	75.2	51.5	44.7	49.4	67.3	55.1	52.0	61.7	57.0
1977	60.6	66.8	78.6	54.9	50.5	54.7	70.4	59.0	57.0	65.7	60.4
1978	65.2	73.8	81.4	60.5	55.0	58.5	74.7	61.7	61.8	69.9	64.3
1979	72.6	81.8	84.9	68.9	61.0	64.8	79.9	70.5	67.5	75.2	68.9
1980	82.4	88.4	90.9	81.0	71.4	75.4	86.3	83.1	74.9	81.9	75.2
1981	90.9	94.8	95.3	90.5	81.9	86.4	93.0	93.2	82.9	89.1	82.6
1982	96.5	98.1	97.8	96.9	93.2	94.9	98.0	97.0	92.5	95.4	91.1
1983	99.6	99.1	100.2	99.1	101.5	100.2	100.2	99.3	100.6	100.3	101.1
1984	103.9	102.8	102.1	104.0	105.4	104.8	101.9	103.7	106.8	104.3	107.9
1985	107.6	104.3	105.0	109.8	107.1	106.5	103.8	106.4	113.5	108.3	114.5
1986	109.6	107.3	105.9	115.8	105.7	104.1	105.2	102.3	122.0	111.9	121.4
1987	113.6	111.9	110.6	121.3	103.8	103.0	107.1	105.4	130.1	115.1	128.5
1988	118.3	116.6	115.4	127.1	104.6	104.4	109.4	108.7	138.6	119.4	137.0
1989	124.0	124.2	118.6	132.8	107.5	107.8	111.2	114.1	149.3	125.0	147.7
1990	130.7	132.3	124.1	140.0	109.3	111.6	113.3	120.5	162.8	130.4	159.0
1991	136.2	135.8	128.7	146.3	112.6	115.3	116.0	123.8	177.0	134.9	171.6
1992	140.3	136.8	131.9	151.2	114.8	117.8	118.0	126.5	190.1	138.3	183.3

a. Applicable to all urban consumers in the United States.
b. Includes hotel and motel rates.
c. Starting in 1978 includes bottled gas.
d. Includes house furnishings only prior to 1969.
e. Prior to 1978 included alcoholic beverages, now found in food and beverages; now includes personal care and education—related expenses, formerly found in health and recreation.
Source: Bureau of Labor Statistics. *The Consumer Price Index*, 1992.

CHART 10-1

UNITED STATES ENERGY CONSUMPTION (QUADRILLIONS OF BTU)



* Includes Natural Gas Liquids

REFERENCE: TABLE 10-1

TABLE 10-5
GAS UTILITY INDUSTRY AVERAGE ANNUAL CONSUMPTION PER CUSTOMER, BY CLASS OF SERVICE, 1968-1992[a]

(MMBtu/Customer)

Year	Total	Residential	Commercial	Industrial[b]	Other[b]
1968	362.4	124.1	567.6	40,378.0	13,129.2
1969	376.7	128.4	611.0	42,220.0	11,327.2
1970	386.8	129.2	640.9	42,386.7	12,232.3
1971	395.0	129.9	673.8	42,235.0	17,064.6
1972	397.7	130.4	697.3	41,948.8	16,428.8
1973	377.0	124.5	684.6	40,051.7	15,129.5
1974	361.1	119.6	676.1	42,066.8	12,586.1
1975	333.6	121.9	708.9	37,253.5	12,039.8
1976	329.7	121.3	718.6	40,022.3	3,511.6
1977	316.8	118.7	714.8	39,217.5	3,996.3
1978	322.2	121.0	743.6	36,635.8	4,511.8
1979	330.3	118.6	726.5	40,345.3	5,133.9
1980	326.4	111.0	701.4	42,559.4	3,454.7
1981	320.7	104.4	666.4	44,020.2	3,235.0
1982	292.9	107.1	680.6	36,514.2	3,244.5
1983	263.5	99.1	625.1	32,759.3	2,996.9
1984	266.8	102.0	642.3	33,253.2	3,094.2
1985	252.5	98.3	612.7	31,473.1	2,739.9
1986	219.4	94.0	575.3	24,434.5	3,215.2
1987	204.4	92.6	541.7	21,374.4	2,885.5
1988	204.2	97.5	566.7	21,144.0	3,074.1
1989	197.7	98.0	558.0	19,339.5	3,983.6
1990	181.4	89.7	516.3	18,138.9	3,573.8
1991[R]	174.0	89.8	508.6	15,693.7	4,483.7
1992	176.5	91.1	502.4	16,753.7	5,052.4

a. Excludes customers purchasing for resale and sales for resale. Customer data is based on yearly averages.

b. Prior to 1976, "Other" electric generation (See Table 6-13) is included in the "Other" class of service. For 1976 and beyond, all electric generation is included in the Industrial category.

R–Revised.

TABLE 10-6
GAS UTILITY INDUSTRY AVERAGE ANNUAL RESIDENTIAL CONSUMPTION PER CUSTOMER BY STATE, 1975-1992[a]

(MMBtu/Customer)

Division and State	1975	1980	1985	1989	1990	1991R	1992
United States	**121.9**	**111.0**	**98.3**	**98.0**	**89.7**	**89.8**	**91.1**
New England	**85.3**	**90.0**	**88.8**	**97.4**	**92.2**	**87.5**	**99.1**
Connecticut	84.6	88.1	85.8	97.8	94.4	87.4	97.5
Maine	38.7	43.2	44.3	54.0	54.1	58.1	99.6
Massachusetts	86.0	91.3	89.9	97.4	90.4	87.4	67.9
New Hampshire	95.1	97.7	94.7	98.6	94.4	83.9	93.2
Rhode Island	84.0	86.7	89.3	97.3	97.6	88.8	101.1
Vermont	93.3	102.8	105.3	116.4	109.2	106.0	117.1
Middle Atlantic	**102.1**	**102.8**	**94.7**	**103.8**	**94.8**	**92.6**	**102.1**
New Jersey	88.5	89.7	87.8	100.6	89.1	89.1	98.9
New York	89.4	90.7	87.0	94.9	90.4	86.3	95.6
Pennsylvania	135.1	133.3	112.9	121.4	107.2	106.2	115.9
East North Central	**164.5**	**158.6**	**137.1**	**138.2**	**121.9**	**123.5**	**126.9**
Illinois	168.9	162.5	147.3	145.1	131.0	131.4	132.8
Indiana	151.5	143.9	122.8	121.9	110.5	109.7	113.2
Michigan	167.7	172.8	145.8	148.0	130.2	131.2	137.3
Ohio	171.2	158.3	131.8	137.1	116.8	119.8	125.8
Wisconsin	139.0	130.8	116.5	117.1	102.1	108.0	105.5
West North Central	**152.6**	**131.3**	**117.4**	**112.7**	**102.6**	**108.1**	**102.2**
Iowa	152.2	127.7	116.4	114.4	101.2	109.5	104.2
Kansas	150.4	126.6	110.8	102.9	96.6	102.5	95.8
Minnesota	159.7	138.9	129.2	127.1	112.8	120.0	113.5
Missouri	148.9	133.2	112.7	107.0	99.2	100.7	96.6
Nebraska	155.2	128.9	118.4	109.9	100.7	106.4	97.8
North Dakota	163.0	127.6	124.5	122.0	111.1	123.6	112.7
South Dakota	145.0	117.4	115.8	111.4	98.9	106.2	98.8
South Atlantic	**96.3**	**93.2**	**78.0**	**81.0**	**75.4**	**71.5**	**77.9**
Delaware	93.6	93.4	81.1	90.8	84.5	81.2	93.9
District of Columbia	95.9	103.5	90.3	97.4	94.0	84.4	90.0
Florida	38.6	40.0	32.5	32.9	29.4	31.2	34.3
Georgia	103.5	96.9	81.7	77.8	75.8	71.5	77.8
Maryland	97.5	96.6	85.0	91.9	85.1	82.1	88.4
North Carolina	92.7	97.1	76.6	81.3	72.4	71.0	76.8
South Carolina	72.7	77.3	58.1	64.0	57.3	58.4	63.9
Virginia	100.1	99.7	84.3	93.9	81.1	77.3	87.0
West Virginia	149.4	131.0	108.9	112.3	111.4	97.2	109.4
East South Central	**107.1**	**102.4**	**85.0**	**86.2**	**79.5**	**79.8**	**81.7**
Alabama	91.2	86.9	73.6	71.8	71.4	66.6	72.0
Kentucky	136.7	130.4	104.2	109.2	93.1	98.3	100.7
Mississippi	86.6	85.9	73.5	72.1	68.8	67.3	69.9
Tennessee	105.5	101.7	85.5	87.2	81.3	83.0	80.3
West South Central	**95.9**	**84.3**	**74.9**	**74.9**	**66.4**	**68.5**	**66.2**
Arkansas	114.0	95.6	87.2	89.5	78.1	80.5	80.1
Louisana	81.9	77.0	66.1	64.0	59.3	59.3	60.3
Oklahoma	120.6	103.5	95.3	91.5	83.2	86.5	79.9
Texas	91.5	80.2	70.4	71.5	62.4	64.7	62.3
Mountain	**131.0**	**103.9**	**94.0**	**86.3**	**85.5**	**89.4**	**83.3**
Arizona	77.3	59.1	54.6	49.1	50.9	49.8	47.9
Colorado	147.2	119.8	99.7	94.3	95.7	100.6	94.8
Idaho	110.7	79.5	81.3	79.1	74.1	82.3	72.2
Montana	171.2	126.1	123.7	117.9	109.0	115.1	106.6
Nevada	113.2	87.5	73.2	70.6	69.0	69.6	86.8
New Mexico	126.6	99.1	84.4	80.0	83.8	85.6	63.7
Utah	180.1	139.0	134.9	113.9	106.7	116.6	102.8
Wyoming	161.7	128.6	122.7	111.8	107.7	112.2	100.4
Pacific	**109.9**	**81.6**	**75.6**	**66.5**	**65.2**	**63.8**	**59.0**
Alaska	221.3	216.9	205.8	194.2	198.8	185.7	192.1
California	109.4	80.5	73.6	63.9	62.5	60.4	56.2
Hawaii	29.1	25.0	20.3	19.3	19.3	18.4	18.1
Oregon	107.0	79.8	83.5	76.6	75.6	81.1	68.0
Washington	122.0	95.5	94.0	93.2	90.3	98.0	82.6

a. Customer data are based on yearly averages.
R–Revised.

TABLE 10-7

HEATING DEGREE DAYS[a] BY CALENDAR YEAR AND HEATING SEASONS, 1992-1993, AND THIRTY-YEAR NORMALS

Division and State	Calendar Year Degree Days			Heating Season Degree Days[b]		
	30-Year[c] Normals 1951-1980	1991	1992	30-Year[c] Normals 1951/52-1980/81	1991-1992	1992-1993
United States	**4,694**	**4,316**	**4,579**	**3,798**	**3,536**	**3,720**
New England	**6,562**	**5,931**	**6,811**	**5,071**	**4,945**	**5,083**
Connecticut	6,146	5,303	6,213	4,839	4,554	4,810
Maine	7,945	7,661	8,358	5,892	6,051	6,010
Massachusetts	6,322	5,727	6,636	4.913	4,802	4,919
New Hampshire	7,599	6,939	7,777	5,752	5,626	5,871
Rhode Island	5,968	5,257	6,147	4,629	4,451	4,604
Vermont	7,979	7,620	8,527	6,045	6,195	6,035
Middle Atlantic	**5,820**	**5,189**	**5,975**	**4,661**	**4,449**	**4,579**
New Jersey	5,424	4,762	5,516	4,422	4,125	4,351
New York	5,943	5,255	6,112	4,730	4,531	4,726
Pennsylvania	5,881	5,353	6,053	4,708	4,527	4,510
East North Central	**6,375**	**5,902**	**6,296**	**5,131**	**3,776**	**4,999**
Illinois	6,175	5,829	6,028	5,083	4,685	4,978
Indiana	5,871	5,359	5,707	4,815	4,427	4,666
Michigan	6,823	6,251	6,839	5,363	5,121	5,172
Ohio	5,897	5,318	5,864	4,766	4,504	4,570
Wisconsin	7,665	7,372	7,555	6,004	5,615	5,762
West North Central	**6,657**	**6,327**	**6,273**	**5,419**	**4,856**	**5,517**
Iowa	6,932	6,753	6,597	5,663	5,135	5,757
Kansas	4,988	4,625	4,604	4,271	3,696	4,607
Minnesota	8,771	8,431	8,331	6,855	6,313	6,734
Missouri	5,091	4,759	4,790	4,344	3,885	4,477
Nebraska	6,435	6,157	6,023	5,261	4,572	5,725
North Dakota	9,481	8,742	8,843	7,277	6,276	7,331
South Dakota	7,714	7,222	7,265	6,091	5,250	6,312
South Atlantic	**2,999**	**2,610**	**2,972**	**2,603**	**2,406**	**2,457**
Delaware	4,784	4,075	4,691	4,007	3,678	3,829
District of Columbia	d	d	d	d	d	3,614
Florida	720	530	650	713	645	418
Georgia	2,788	2,454	2,778	2,507	2,311	2,383
Maryland	4,811[e]	4,154[e]	4,740[e]	4,034[e]	3,716[e]	4,027
North Carolina	3,481	3,054	3,452	3,043	2,791	2,911
South Carolina	2,743	2,422	2,728	2,495	2,316	2,458
Virginia	4,532	3,845	4,367	3,661	3,407	3,575
West Virginia	5,250	4,748	5,300	4,270	4,065	4,143
East South Central	**3,555**	**3,214**	**3,500**	**3,109**	**2,895**	**3,060**
Alabama	2,828	2,558	2,831	2,549	2,433	2,414
Kentucky	4,544	4,054	4,420	3,861	3,533	3,703
Mississippi	2,510	2,354	2,507	2,308	2,215	2,131
Tennessee	3,954	3,576	3,882	3,422	3,153	3,295
West South Central	**2,313**	**2,209**	**2,180**	**2,142**	**1,968**	**2,090**
Arkansas	3,327	3,109	3,184	2,991	2,736	3,058
Louisiana	1,794	1,682	1,743	1,703	1,624	1,526
Oklahoma	3,571	3,340	3,229	3,213	2,804	3,397
Texas	2,035	1,979	1,923	1,908	1,802	1,822
Mountain	**5,529**	**5,487**	**5,273**	**4,182**	**3,966**	**4,318**
Arizona	2,313	2,166	2,194	2,037	1,874	1,791
Colorado	7,123	7,233	7,147	5,192	5,118	5,494
Idaho	6,935	6,850	6,160	5,061	4,546	5,594
Montana	8,260	7,750	7,356	5,822	4,924	6,239
Nevada	4,263	4,133	3,821	3,373	3,086	3,386
New Mexico	4,756	4,772	4,861	3,842	3,925	3,780
Utah	6,555	6,747	6,035	4,966	4,774	5,259
Wyoming	8,023	7,859	7,537	5,744	5,320	6,156
Pacific	**3,322**	**3,122**	**2,775**	**2,432**	**2,112**	**2,382**
Alaska	f	f	f	f	f	f
California	2,703	2,520	2,235	2,060	1,807	1,917
Hawaii	f	f	f	f	f	f
Oregon	5,255	5,057	4,356	3,573	3,053	3,713
Washington	5,637	5,348	4,859	3,840	3,269	3,995

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a. See glossary for definitions of (heating) degree days. Division heating degree days are the weighted average of all states in a region, according to the 1980 population. National heating degree days are the weighted average of all divisions, according to the 1980 population.

b. Heating season is defined as November through March period.

c. The transference of many weather stations between city locations and nearby airports at some time during the 30 year period has led to the introduction of slight inconsistencies in the average data.

d. Included in Maryland.

e. Includes the District of Columbia.

f. Not available.

Source: National Oceanic and Atmospheric Administration, *Monthly State, Regional and National Heating Degree Days Weighted by Population.*

TABLE 10-8
GAS UTILITY INDUSTRY AVERAGE ANNUAL CONSUMPTION PER CUSTOMER BY STATE AND CLASS OF SERVICE, 1992[a]

(MMBtu/Customer)

		Class of Service				
Division and State	Total	Residential	Commercial	Industrial	Electric Generation	Other
United States	**176.5**	**91.1**	**902.4**	**11,884.3**	**1,391,546.6**	**5,052.4**
New England	**194.6**	**99.1**	**619.2**	**8,440.9**	**1,132,183.3**	**1,196.8**
Connecticut	200.2	97.5	617.8	7,946.0	157,600.0	31,931.0
Maine	292.4	67.9	479.8	24,963.4	b	b
Massachusetts	191.7	99.6	660.5	8,595.5	1,701,000.0	764.8
New Hampshire	213.2	93.2	495.5	11,550.7	508,000.0	1,649.2
Rhode Island	171.5	101.1	512.9	4,436.9	1,487,850.0	6,297.3
Vermont	290.9	117.1	530.2	104,916.0	798,600.0	76.7
Middle Atlantic	**163.5**	**102.1**	**580.0**	**7,654.4**	**2,838,462.5**	**2,598.3**
New Jersey	199.1	98.9	595.1	8,169.5	2,698,000.0	13,047.6
New York	139.1	95.6	429.6	4,446.6	5,228,666.7	2,386.6
Pennsylvania	173.1	115.9	504.4	12,643.2	25,700.0	3,837.9
East North Central	**177.2**	**126.9**	**539.5**	**4,388.2**	**39,798.4**	**2,476.2**
Illinois	170.0	132.8	452.2	2,372.6	46,694.4	1,806.6
Indiana	188.2	113.2	543.9	9,807.6	41,000.0	2,527.0
Michigan	179.0	137.3	609.2	2,379.1	17,741.2	b
Ohio	173.8	125.8	585.0	4,839.6	34,005.3	2,499.0
Wisconsin	188.7	105.5	538.3	7,239.6	99,750.0	35,275.0
West North Central	**167.7**	**102.2**	**518.9**	**9,474.0**	**14,924.8**	**2,667.9**
Iowa	171.4	104.2	516.3	11.515.6	8,697.6	3,079.9
Kansas	146.8	95.8	467.5	2,745.8	18,258.8	2,706.7
Minnesota	212.0	113.5	674.1	13,749.1	17,610.9	5,433.8
Missouri	137.7	96.6	459.7	12,621.0	13,345.0	1,653.1
Nebraska	174.5	97.8	457.7	13,489.6	17,041.7	3,634.0
North Dakota	179.3	112.7	608.3	17,205.1	b	11,000.0
South Dakota	176.1	98.8	453.3	9,283.7	100,000.0	b
South Atlantic	**181.9**	**77.9**	**572.1**	**18,146.4**	**850,163.6**	**626.2**
Delaware	218.1	90.0	627.8	34,513.8	426,300.0	38,000.0
District of Columbia	217.4	93.9	1,338.4	b	b	b
Florida	187.0	34.3	894.7	95,034.2	758,846.7	3,302.2
Georgia	144.1	77.8	433.2	20,126.8	245,400.0	59.2
Maryland	157.8	88.4	550.1	4,077.1	3,722,900.0	13,500.0
North Carolina	242.1	76.8	458.6	25,620.6	1,375,500.0	1,696.4
South Carolina	269.9	63.9	411.1	53,238.2	145,666.7	2,564.1
Virginia	174.9	87.0	685.9	8,381.2	8,000.0	108.3
West Virginia	169.7	109.4	446.8	49,058.0	1,094,400.0	714.3
East South Central	**185.5**	**81.7**	**461.3**	**22,738.4**	**1,404,637.5**	**1,601.2**
Alabama	151.6	72.0	435.3	17,486.8	57,350.0	413.7
Kentucky	173.3	100.7	441.3	17,843.7	b	3,168.2
Mississippi	216.2	69.9	358.6	32,897.1	1,848,400.0	1,688.6
Tennessee	213.8	80.3	539.0	26,221.8	b	1,261.8
West South Central	**298.6**	**66.2**	**412.4**	**72,948.0**	**11,184,008.5**	**15,768.1**
Arkansas	143.4	80.1	368.1	15,269.9	b	7,381.3
Louisiana	442.3	60.3	348.3	252,515.4	2,928,745.5	51,027.4
Oklahoma	165.9	79.9	353.7	15,928.8	928,615.4	627.7
Texas	317.7	62.3	453.8	85,191.4	20,928,704.3	5,407.3
Mountain	**137.3**	**83.3**	**513.5**	**7,536.3**	**788,903.8**	**2,225.5**
Arizona	100.1	47.9	516.5	11,800.8	1,361,133.3	2,706.1
Colorado	145.5	94.8	562.7	3,138.7	225,166.7	2,265.1
Idaho	116.3	72.2	327.8	5,252.8	b	333.3
Montana	167.4	106.6	500.7	5,541.1	b	14,387.3
Nevada	108.5	63.7	643.3	5,384.6	117,000.0	12,218.8
New Mexico	172.4	86.8	387.1	9,702.2	2,467,516.7	1,724.4
Utah	141.0	102.8	492.8	7,903.3	3,444.4	8,000.0
Wyoming	170.8	100.4	559.4	1,585.0	b	17,960.0
Pacific	**123.5**	**99.0**	**421.2**	**7,903.3**	**1,533,653.5**	**239,486.1**
Alaska	355.1	192.1	933.7	b	1,667,666.7	3,780.0
California	114.3	56.2	382.1	7,270.3	1,592,787.2	407,210.0
Hawaii	95.7	18.1	960.3	616.0	b	b
Oregon	139.3	68.0	393.1	22,174.1	b	b
Washington	223.7	82.6	595.3	14,205.9	58,000.0	4,850.7

a. Excludes customers purchasing for resale and sales for resale. Customer data is based on yearly averages.
b. No sales reported.

SECTION 11
APPLIANCE AND HOUSING DATA

	1992	% Change 92/91
Manufacturer Shipments		
(Thousands of Units)		
Central Heating	2,286	+2.0
Ranges	2,312	+8.4
Water Heaters	4,241	+7.7
Clothes Dryers	1,154	+13.4
New One-Family Houses Completed		
(Thousands of Units)		
Gas Heat	621	+23.5

Note: Certain tables in this section could not be updated because current information was not available.

TABLE 11-1
MANUFACTURER SHIPMENTS OF GAS RANGES, WATER HEATERS AND CLOTHES DRYERS, 1972-1992[a]

(Thousands of Units)

	Domestic Range Sales			Automatic Domestic Water Heater Sales			
Year	Free-Standing[b]	Built-in	Total	Natural Gas	L.P. Gas	Total	Automatic Gas Dryers[c]
1972	2,467	194	2,661	2,676	487	3,163	936
1973	2,312	169	2,481	2,568	512	3,080	926
1974	1,825	125	1,950	2,210	359	2,569	739
1975	1,493	125	1,618	2,388	257	2,645	672
1976	1,693	131	1,824	2,695	417	3,112	707
1977	1,615	131	1,746	d	d	3,070	736
1978	1,665	129	1,794	2,578	343	2,921	757
1979	1,670	129	1,799	2,548	339	2,887	757
1980	1,437	102	1,539	2,498	320	2,818	682
1981	1,401	95	1,496	2,461	324	2,785	639
1982	1,289	79	1,368	2,771	270	3,041	584
1983	1,477	96	1,573	2,953	219	3,172	672
1984	1,626	106	1,732	3,281	221	3,502	754
1985	1,729	84	1,813	3,303	226	3,529	834
1986	1,854	86	1,940	3,485	244	3,729	936
1987	2,047	96	2,143	3,673	278	3,951	1,037
1988	2,016[e]	126[e]	2,226[e]	3,674	282	3,956	1,047[e]
1989	2,055[e]	112[e]	2,167[e]	3,845	285	4,130	1,052[e]
1990	2,061[e]	106[e]	2,167[e]	3,626	281	3,907	1,002[e]
1991[R]	2,039[e]	93[e]	2,132[e]	3,619	317	3,936	1,018[e]
1992	2,221[e]	91[e]	2,312[e]	3,883	358	4,241	1,154[e]

a. Shows shipments by manufacturers, expanded from returns of reporting companies to represent industry-wide coverage. Shipments of appliances for L.P. gas users include those for use by customers obtaining such gas through utility mains, as well as bottled gas users.

b. Free-standing includes free-standing, "set-in" and high-oven ranges.

c. Excludes combination washer-dryer units.

d. Not Available.

e. Data not directly comparable to earlier years due to new source of information.

R – Revised.

Source: Gas Appliance Manufacturers Association, *Statistical Highlights*, Ten Year Summary, 1983-1992 and Association of Home Appliance Manufacturers.

TABLE 11-2
MANUFACTURER SHIPMENTS OF GAS HEATING EQUIPMENT, 1972-1992[a]

(Thousands of Units)

	Central Heating Equipment					
Year	Warm Air Furnaces	Conversion Burners	Boilers	Total	Floor and Wall Furnaces Total[b]	Direct Heating Equipment Total
1972	2,066	40	156	2,262	762	708
1973	1,719	43	147	1,909	652	678
1974	1,476	89	123	1,688	409	488
1975	1,186	39	88	1,313	435	332
1976	1,554	26	113	1,693	523	306
1977	1,508	c	113	1,621	481	193
1978	1,636	c	126	1,762	532	175
1979	1,863	c	221	2,084	365	193
1980	1,446	c	293	1,739	297	222
1981	1,417	c	162	1,579	253	133
1982	1,156	c	148	1,304	260	182
1983	1,662	c	148	1,810	363	203
1984	1,849	c	180	2,029	391	256
1985	1,822	c	192	2,014	430	283
1986	2,105	c	196	2,301	427	281
1987	2,073	c	190	2,263	421	268
1988	2,092	c	211	2,303	429	294
1989	2,162	c	192	2,354	192	305
1990	1,950	c	204	2,154	169	318
1991	2,057	c	184	2,241	163	270
1992	2,107	c	179	2,286	163	292

a. Shows shipments by manufacturers; expanded from returns of reporting companies to represent industry-wide coverage.
b. Includes RV central and wall furnaces until 1988. Does not include RV central furnaces after 1988.
c. Not available.
Source: Gas Applicance Manufacturers Association, *Statistical Highlights*, Ten Year Summary, 1983-1992.

TABLE 11-3
MANUFACTURER SHIPMENTS OF RESIDENTIAL GAS APPLIANCES, BY MONTH, 1992

(Thousands of Units)

	Ranges				Central Heating	
Month	Free-Standing[a]	Built-in	Automatic Water Heaters	Dryers[b]	Warm Air Furnaces	Boilers
January	150.4	7.7	360.6	94.2	153.3	12.1
February	155.0	6.9	355.6	85.3	162.8	11.4
March	173.1	7.9	364.0	107.4	158.1	12.4
April	182.3	8.4	363.6	91.1	151.7	7.9
May	179.3	6.7	334.8	92.5	142.1	5.6
June	190.6	7.2	339.2	97.7	166.2	10.1
July	174.8	7.1	307.6	78.8	175.5	10.7
August	166.4	5.6	315.6	91.1	194.8	23.0
September	191.3	6.8	338.4	106.4	224.1	23.0
October	219.6	8.3	370.0	103.1	236.3	29.4
November	213.3	9.0	373.6	95.6	180.2	20.0
December	225.2	9.8	418.2	110.4	161.8	13.4
Total	2,220.9	91.4	4,241.2	1,153.7	2,106.9	179.0

a. Free-standing includes free-standing, "set-in" and high-oven ranges.
b. Excludes combination washer-dryer units.
Source: Gas Appliance Manufacturers Association, *Statistical Highlights*, December 1992 and Association of Home Appliance Manufacturers.

TABLE 11-4
NUMBER OF OCCUPIED HOUSING UNITS,[a] BY TYPE OF HEATING FUEL AND BY CENSUS REGION, 1978-1991

(Thousands of Occupied Units)

Year and Region	Total	Gas	Electricity	Oil[b]	Other[c]/None
1978					
United States	**77,167**	**42,522**	**12,258**	**16,071**	**6,316**
Northeast	16,952	6,301	999	9,252	400
Midwest	20,171	14,140	1,685	2,817	1,529
South	25,093	11,956	6,561	3,263	3,313
West	14,951	10,125	3,013	739	1,074
1979					
United States	**78,572**	**43,323**	**13,244**	**15,708**	**6,297**
Northeast	17,122	6,558	1,109	9,056	399
Midwest	20,565	14,428	1,864	2,724	1,549
South	25,584	12,054	7,074	3,191	3,265
West	15,301	10,283	3,197	737	1,084
1980					
United States	**80,072**	**44,398**	**14,208**	**14,868**	**6,598**
Northeast	17,264	6,928	1,169	8,685	482
Midwest	20,842	14,688	2,036	2,503	1,615
South	26,286	12,290	7,615	3,009	3,372
West	15,680	10,492	3,388	671	1,129
1981					
United States	**83,175**	**46,084**	**15,486**	**14,494**	**7,111**
Northeast	17,851	7,335	1,281	8,642	593
Midwest	21,565	15,308	2,211	2,328	1,718
South	27,431	12,725	8,225	2,905	3,576
West	16,328	10,716	3,770	619	1,223
1983					
United States	**84,638**	**46,700**	**15,684**	**13,031**	**9,223**
Northeast	18,221	7,741	1,319	8,226	934
Midwest	21,618	15,656	2,172	1,774	2,015
South	27,931	12,346	8,557	2,559	4,470
West	16,868	10,956	3,635	472	1,805
1985					
United States	**88,425**	**45,328**	**18,361**	**12,441**	**12,295**
Northeast	18,729	7,339	1,642	7,998	1,750
Midwest	22,142	15,253	2,430	1,698	2,761
South	30,064	11,839	10,664	2,153	5,408
West	17,490	10,896	3,626	592	2,376
1987					
United States	**90,229**	**45,959**	**20,608**	**13,813**	**9,848**
Northeast	18,939	7,520	1,859	8,413	1,148
Midwest	22,246	15,462	2,647	1,758	2,379
South	31,068	11,853	11,977	2,852	4,387
West	17,976	11,124	4,125	791	1,935
1989					
United States	**93,020**	**47,395**	**23,060**	**13,542**	**9,023**
Northeast	19,377	7,844	2,009	8,476	1,048
Midwest	22,847	16,156	2,781	1,634	2,276
South	32,191	12,031	13.569	2,666	3,925
West	18,605	11,364	4,701	766	1,747
1991					
United States	**92,286**	**47,019**	**23,714**	**12,462**	**9,091**
Northeast	18,912	7,978	1,995	7,891	1,047
Midwest	22,554	16,770	2,939	1,499	2,347
South	31,912	10,621	13,875	2,399	4,016
West	18,908	11,650	4,905	673	1,679

a. Units include both single-family and multifamily.
b. Oil includes kerosene.
c. Other includes LP gas, coal, wood and solar heat.

Source: U.S. Bureau of the Census, Current Housing Reports—Series H-150. *Annual Housing Survey.* Part A: General Housing Characteristics. Publication name changed to *American Housing Survey* in 1990.

TABLE 11-5
NEW ONE FAMILY HOUSES[a] COMPLETED, BY TYPE OF HEATING FUEL AND BY CENSUS REGION, 1984-1992

(Thousands of Units)

Year and Region	Total	Gas	Electricity	Oil[b]	Other/None
1984					
United States	**1,025**	**460**	**492**	**24**	**49**
Northeast	129	53	46	21	9
Midwest	156	110	30	c	14
South	508	170	325	c	12
West	233	127	91	c	14
1985					
United States	**1,072**	**466**	**528**	**36**	**42**
Northeast	168	65	63	32	8
Midwest	151	111	31	c	7
South	514	146	354	c	11
West	239	144	79	c	16
1986					
United States	**1,118**	**526**	**496**	**51**	**45**
Northeast	193	80	59	47	7
Midwest	170	132	30	c	6
South	502	152	334	c	14
West	253	162	74	c	17
1987					
United States	**1,119**	**581**	**444**	**57**	**37**
Northeast	195	86	52	52	5
Midwest	201	166	26	3	6
South	464	154	302	c	8
West	258	175	64	c	19
1988					
United States	**1,085**	**587**	**402**	**60**	**36**
Northeast	188	85	43	57	3
Midwest	191	162	22	c	6
South	457	164	282	3	8
West	248	176	53	c	18
1989					
United States	**1,026**	**596**	**352**	**50**	**28**
Northeast	159	81	29	45	4
Midwest	191	163	22	c	5
South	420	158	252	3	7
West	257	194	49	c	13
1990					
United States	**964**	**572**	**318**	**47**	**27**
Northeast	125	56	24	42	3
Midwest	194	169	21	c	4
South	389	161	220	3	5
West	254	186	53	c	15
1991					
United States	**835**	**503**	**266**	**36**	**29**
Northeast	99	50	16	32	c
Midwest	185	157	21	c	4
South	346	152	185	c	8
West	204	144	43	c	16
1992					
United States	**962**	**621**	**282**	**37**	**22**
Northeast	113	61	18	34	c
Midwest	216	188	24	c	4
South	398	198	195	c	5
West	230	174	45	c	11

a. Includes only privately-owned housing units.
b. Does not include kerosene.
c. Withheld because estimate did not meet Bureau of the Census publication standards.
Source: U.S. Bureau of the Census, Construction Reports—Series C25. *Characteristics of New Housing*, 1992.

TABLE 11-6
UNITS[a] IN NEW MULTIFAMILY BUILDINGS COMPLETED, BY TYPE OF HEATING FUEL AND BY CENSUS REGION, 1984-1992

(Thousands of Units)

Year and Region	Total	Gas	Electricity	Oil[b]	Other/None
1984					
United States	**627**	**165**	**452**	**5**	**5**
Northeast	40	16	18	c	1
Midwest	65	34	32	c	d
South	358	46	312	c	d
West	164	70	90	c	4
1985					
United States	**631**	**197**	**425**	**3**	**5**
Northeast	46	25	17	3	1
Midwest	79	36	42	c	1
South	298	34	263	c	1
West	207	101	103	c	3
1986					
United States	**636**	**221**	**400**	**8**	**7**
Northeast	61	33	19	7	2
Midwest	100	43	56	c	1
South	259	33	224	1	1
West	216	112	101	c	3
1987					
United States	**545**	**222**	**306**	**5**	**12**
Northeast	60	35	18	5	2
Midwest	102	63	37	d	2
South	194	30	162	d	2
West	190	95	89	d	6
1988					
United States	**445**	**196**	**238**	**4**	**7**
Northeast	62	40	18	3	1
Midwest	89	56	32	d	1
South	138	20	118	d	d
West	156	80	70	d	5
1989					
United States	**397**	**167**	**215**	**5**	**11**
Northeast	60	38	16	4	1
Midwest	76	51	22	d	c
South	129	20	109	d	d
West	131	57	68	d	c
1990					
United States	**341**	**150**	**182**	**2**	**7**
Northeast	31	22	7	2	c
Midwest	66	50	16	d	d
South	122	20	100	1	1
West	122	59	59	d	4
1991					
United States	**253**	**102**	**139**	**2**	**10**
Northeast	21	11	7	c	d
Midwest	55	37	18	d	c
South	91	21	68	d	c
West	87	34	47	d	c
1992					
United States	**194**	**101**	**86**	**1**	**6**
Northeast	20	14	6	d	d
Midwest	49	42	7	d	c
South	63	17	46	d	d
West	58	27	26	d	5

a. Includes only privately-owned housing units.
b. Does not include kerosene.
c. Withheld because estimate did not meet Bureau of the Census publication standards.
d. Fewer than 500 units.
Source: U.S. Bureau of the Census, Construction Reports—Series C25, *Characteristics of New Housing*, 1992.

TABLE 11-7
NUMBER OF OCCUPIED HOUSING UNITS,[a] BY TYPE OF COOKING FUEL AND BY CENSUS REGION, 1977-1991

(Thousands of Occupied Units)

Year and Region	Total	Gas	Electricity	Oil[b]	Other[c]/None
1977					
United States	**75,280**	**32,207**	**37,042**	**45**	**5,986**
Northeast	16,635	9,096	6,280	17	1,242
Midwest	19,857	8,857	9,426	14	1,560
South	24,379	8,146	13,563	11	2,659
West	14,408	6,107	7,773	2	526
1978					
United States	**77,167**	**32,576**	**38,779**	**107**	**5,705**
Northeast	16,952	9,185	6,568	44	1,155
Midwest	20,171	8,847	9,833	32	1,459
South	25,094	8,242	14,234	24	2,594
West	14,950	6,302	8,144	7	497
1979					
United States	**78,572**	**32,551**	**40,345**	**84**	**5,593**
Northeast	17,123	9,162	6,752	42	1,166
Midwest	20,565	8,958	10,180	15	1,413
South	25,585	8,171	14,873	22	2,519
West	15,299	6,258	8,540	6	496
1980					
United States	**80,072**	**32,664**	**41,729**	**152**	**5,528**
Northeast	17,264	9,234	6,828	65	1,138
Midwest	20,842	8,898	10,516	30	1,398
South	26,286	8,196	15,531	37	2,521
West	15,680	6,336	8,852	20	471
1985					
United States	**88,425**	**33,794**	**49,057**	**153**	**5,421**
Northeast	18,729	9,526	7,874	20	1,309
Midwest	22,142	9,135	11,826	24	1,157
South	30,064	8,298	19,201	55	2,510
West	17,490	6,834	10,156	54	446
1987					
United States	**90,499**	**33,670**	**51,629**	**178**	**5,022**
Northeast	18,853	9,344	8,246	34	1,229
Midwest	22,179	8,967	12,045	41	1,126
South	31,163	8,176	20,652	68	2,267
West	18,304	7,183	10,686	35	400
1989					
United States	**93,329**	**34,487**	**54,090**	**162**	**4,590**
Northeast	19,281	9,491	8,581	31	1,178
Midwest	22,796	9,379	12,336	41	1,039
South	32,334	8,168	22,096	54	2,016
West	18,918	7,449	11,076	36	357
1991					
United States	**92,775**	**33,593**	**54,232**	**214**	**4,735**
Northeast	18,822	9,125	8,449	44	1,204
Midwest	22,506	9,507	12,341	22	1,086
South	32,125	7,740	22,175	97	2,113
West	19,321	7,671	11,267	51	332

a. Units include both single-family and multifamily.

b. Oil includes kerosene.

c. Other includes LP gas, coal and wood.

Sources: For 1974-1977, U.S. Bureau of the Census, Current Housing Reports—Series H-150, *Annual Housing Survey.* Part A. For 1978-1980, U.S. Bureau of the Census, Current Housing Reports—Series H-150, *Annual Housing Survey.* Part F: Energy-Related Housing Characteristics. Publication name changed to *American Housing Survey* in 1990.

TABLE 11-8
NUMBER OF OCCUPIED HOUSEHOLDS BY TYPE OF FUEL USED FOR WATER HEATING AND CLOTHES DRYING, AND BY CENSUS REGION, 1987

(Millions of Households)

	Total	Gas	Electricity	Oil[a]	Other[b]/None
Water Heating					
United States	**90.5**	**49.3**	**32.0**	**5.3**	**3.9**
Northeast	19.0	9.0	4.5	5.1	0.3
Midwest	22.3	15.3	5.8	d	1.1
South	30.9	12.6	16.7	d	1.4
West	18.3	12.4	5.0	d	0.9
Clothes Drying					
United States	**90.5**	**12.9**	**45.9**	**c**	**31.7**
Northeast	19.0	3.1	8.1	c	7.8
Midwest	22.3	4.3	11.4	c	6.6
South	30.9	2.1	17.9	c	10.9
West	18.3	3.4	8.6	c	6.3

NUMBER OF OCCUPIED HOUSEHOLDS BY TYPE OF FUEL USED FOR WATER HEATING AND CLOTHES DRYING, AND BY CENSUS REGION, 1990

(Millions of Households)

	Total	Gas	Electricity	Oil[a]	Other[b]/None
Water Heating					
United States	**94.0**	**49.7**	**34.9**	**4.0**	**5.4**
Northeast	19.2	9.4	4.2	3.8	1.8
Midwest	23.1	14.7	7.0	d	1.4
South	32.3	12.7	18.1	d	1.5
West	19.4	12.9	5.6	d	0.9
Clothes Drying					
United States	**94.0**	**14.5**	**49.4**	**c**	**30.1**
Northeast	19.2	3.0	9.1	c	7.1
Midwest	23.1	4.9	11.7	c	6.5
South	32.3	2.8	19.8	c	9.7
West	19.4	3.8	8.8	c	6.8

a. Oil includes kerosene.
b. Other includes LP gas, coal, wood and solar.
c. Not applicable.
d. Data withheld because of large variance.
Source: U.S. Department of Energy, Energy Information Administration, *Residential Energy Consumption Survey: Housing Characteristics, 1990.*

TABLE 11-9
HOUSEHEATING FUEL MARKET SHARE, 1990

Division and State	Natural and LP Gas	Natural Gas Only	Electricity	Fuel/Oil Kerosene	Other [a]	Total
United States	**56.7**	**51.0**	**25.8**	**12.2**	**5.3**	**100.0**
New England	**31.4**	**28.7**	**13.0**	**50.6**	**4.9**	**100.0**
Connecticut	28.2	26.3	15.1	54.4	2.4	100.0
Maine	3.7	1.8	11.7	69.5	15.2	100.0
Massachusetts	40.1	38.0	13.5	44.0	2.4	100.0
New Hampshire	21.3	15.2	12.4	55.8	10.5	100.0
Rhode Island	43.0	40.7	7.9	47.0	2.1	100.0
Vermont	18.5	8.0	9.1	54.3	18.1	100.0
Middle Atlantic	**51.4**	**49.3**	**10.9**	**33.7**	**4.0**	**100.0**
New Jersey	59.4	57.5	10.0	29.2	1.4	100.0
New York	48.1	45.7	8.5	39.6	3.7	100.0
Pennsylvania	51.2	49.5	14.8	27.9	6.1	100.0
East North Central	**77.2**	**71.9**	**12.2**	**6.5**	**4.1**	**100.0**
Illinois	84.6	80.3	11.2	1.8	2.3	100.0
Indiana	69.6	63.1	19.3	6.2	5.0	100.0
Michigan	83.0	76.9	5.4	6.9	4.7	100.0
Ohio	72.0	68.2	16.8	7.5	3.8	100.0
Wisconsin	69.4	61.0	9.3	14.6	6.8	100.0
West North Central	**74.8**	**63.5**	**14.0**	**5.6**	**5.6**	**100.0**
Iowa	80.4	65.6	10.5	5.5	3.7	100.0
Kansas	84.7	75.9	11.8	0.3	3.2	100.0
Minnesota	71.1	62.9	10.5	11.9	6.6	100.0
Missouri	72.4	60.4	18.1	1.5	8.0	100.0
Nebraska	81.2	70.2	13.6	2.5	2.8	100.0
North Dakota	53.7	39.7	26.2	15.7	4.4	100.0
South Dakota	63.0	43.0	17.8	13.6	5.6	100.0
South Atlantic	**33.9**	**26.8**	**48.8**	**12.2**	**5.1**	**100.0**
Delaware	37.3	30.5	21.8	38.5	2.3	100.0
District of Columbia	65.5	63.5	20.5	12.5	1.6	100.0
Florida	14.7	7.5	78.8	4.1	2.4	100.0
Georgia	67.1	53.3	27.2	1.5	4.1	100.0
Maryland	45.4	43.2	29.6	22.1	2.9	100.0
North Carolina	27.1	18.6	42.0	22.5	8.4	100.0
South Carolina	33.8	24.6	46.9	13.2	6.1	100.0
Virginia	31.5	28.9	40.1	20.2	8.2	100.0
West Virginia	53.5	50.7	25.3	7.8	13.4	100.0
East South Central	**50.0**	**39.0**	**38.1**	**2.8**	**9.1**	**100.0**
Alabama	58.4	42.8	34.6	1.2	5.8	100.0
Kentucky	53.3	45.6	30.0	4.8	11.9	100.0
Mississippi	60.9	40.8	30.6	0.5	8.1	100.0
Tennessee	35.5	30.0	50.5	3.8	10.3	100.0
West South Central	**61.2**	**53.1**	**35.5**	**0.2**	**3.1**	**100.0**
Arkansas	64.4	52.8	22.7	0.2	12.7	100.0
Louisiana	60.9	55.1	36.2	0.3	2.6	100.0
Oklahoma	74.4	64.4	20.5	0.1	5.0	100.0
Texas	58.2	50.4	40.2	0.1	1.5	100.0
Mountain	**64.0**	**58.5**	**27.4**	**1.5**	**7.0**	**100.0**
Arizona	44.0	39.5	51.4	0.2	4.4	100.0
Colorado	81.8	77.0	12.9	0.3	5.1	100.0
Idaho	31.3	28.2	39.8	9.0	20.0	100.0
Montana	61.7	54.2	17.9	4.1	16.2	100.0
Nevada	53.7	47.7	39.3	3.7	3.3	100.0
New Mexico	82.0	70.1	9.1	0.3	8.7	100.0
Utah	84.2	81.9	9.5	1.3	5.0	100.0
Wyoming	72.0	62.9	16.5	0.7	10.9	100.0
Pacific	**63.0**	**60.3**	**26.5**	**2.9**	**7.7**	**100.0**
Alaska	44.7	42.8	11.8	32.3	11.2	100.0
California	76.3	73.2	19.2	0.3	4.2	100.0
Hawaii	5.3	3.3	37.9	0.2	56.6	100.0
Oregon	26.2	24.7	44.6	11.4	17.8	100.0
Washington	23.6	22.4	55.1	9.9	11.4	100.0

a. Other includes coal, wood, solar and no fuel used.
Source: U.S. Department of Commerce, Bureau of the Census.

SECTION 12
INCOME ACCOUNTS

	1992	% Change 92/91
Total Operating Revenues		
(Millions)		
Total Industry	$63,289	− 3.7
Distribution	19,854	− 11.5
Transmission	20,193	+ 1.9
Integrated	10,274	− 7.0
Combination	15,968	− 4.7
Net Income		
(Millions)		
Total Industry	$ 3,677	+ 94.1
Distribution	1,176	+ 22.4
Transmission	1,545	+ 61.2
Integrated	331	—
Combination	625	+ 15.1

TABLE 12-1
COMPOSITE INCOME ACCOUNTS
INVESTOR-OWNED GAS UTILITY INDUSTRY
TOTAL INDUSTRY[a], 1975–1992

(Millions)

	1975	1980	1985	1989	1990	1991	1992
Total Operating Revenues	$30,550	$85,918	$103,945	$70,363	$66,027	$63,922	$66,289
Operation Expenses	22,254	73,288	86,944	54,146	49,718	48,830	47,970
Maintenance Expenses	703	1,220	1,628	1,844	1,910	2,035	2,058
Total Operation and Maintenance Expenses	22,957	74,508	88,572	55,990	51,627	50,867	50,028
Depreciation, Retirements, Depletion, etc.	1,760	2,434	3,158	3,429	3,553	3,852	3,887
Federal Income Taxes	965	1,369	2,282	1,028	1,334	1,647	1,763
Provision for Deferred Federal Income Taxes	465	1,949	2,206	2,973	2,354	2,318	2,989
Portion of Current Federal Income Taxes Provided For in Prior Years	(252)	(1,406)	(1,676)	(2,476)	(2,059)	(2,947)	(2,505)
Investment Tax Credit Adjustment	130	213	238	(35)	(23)	(41)	(45)
Other Federal Taxes	109	202	355	412	430	462	473
State Income Taxes	116	200	314	289	263	248	383
Other State and Local Taxes	1,230	2,320	2,871	2,652	2,656	2,759	2,963
Total Taxes	2,763	4,847	6,590	4,843	4,957	4,446	6,020
Total Operating Expenses	27,480	81,789	98,320	64,262	60,137	59,165	59,936
Operating Income	3,070	4,129	5,625	6,101	5,890	4,756	6,352
Other Operating Income	21	23	140	2	c	2	c
Allowance for Funds Used During Construction	130	319	265	171	188	203	212
Utility Operating Income	3,221	4,471	6,030	6,274	6,077	4,962	6,562
Other Income (Non-Operating) (Net)	916	2,458	1,606	2,490	2,170	568	645
Income Before Interest Charges	4,137	6,929	7,636	8,764	8,081	5,530	7,197
Interest on Long-Term Debt	1,423	1,961	2,847	2,850	2,638	2,774	2,844
Amortization of Debt Disc. Exp. and Premium	12	15	25	123	69	99	66
Other Interest Expense (Net)	203	622	724	1,115	967	856	732
Total Interest Charges	1,638	2,598	3,596	4,088	3,675	3,726	3,402
Net Income Before Extraordinary Items	2,499	4,331	4,039	4,676	4,407	1,804	3,795
Extraordinary Items, Less Taxes	3	(137)	(255)	(35)	4	88	(118)
Net Income	2,502	4,194	3,785	4,641	4,410	1,894	3,677
Preferred Dividends	184	296	430	262	178	164	202
Common Dividends	1,325	2,268	3,630	2,851	3,013	4,177	3,692
Note:							
Number of Companies Reporting[b]	204	201	184	165	169	158	156
Op. Rev. of Companies Reporting (Millions)	$29,057	$79,896	$94,935	$65,533	$61,720	$59,135	$59,977

a. For combination companies, only gas operations are included.
b. Financial data of report companies expanded to represent total industry on the basis of operating revenues.
c. Less than $500,000
( ): Denotes negative.
Note: Data not directly comparable from year to year due to acquisitions and mergers. See page ix.

INCOME ACCOUNTS

TABLE 12-2
COMPOSITE INCOME ACCOUNTS
INVESTOR-OWNED GAS UTILITY INDUSTRY
DISTRIBUTION COMPANIES, 1986–1992

(Millions)

	1986	1987	1988	1989	1990	1991	1992
Total Operating Revenues	[illegible],352	$16,513	$16,665	$18,761	$18,750	$17,812	$19,854
Operation Expenses	14,384	12,687	12,670	14,142	14,020	13,005	14,370
Maintenance Expenses	425	430	440	515	524	535	581
Total Operation and Maintenance Expenses	14,809	13,117	13,110	14,657	14,544	13,541	14,951
Depreciation, Retirements, Depletion, etc.	625	629	687	840	956	982	1,137
Federal Income Taxes	429	433	381	340	333	404	423
Provision for Deferred Federal Income Taxes	214	205	222	265	264	186	308
Portion of Current Federal Income Taxes Provided For in Prior Years	(97)	(166)	(199)	(112)	(129)	(112)	(146)
Investment Tax Credit Adjustment	4	(11)	(21)	(23)	(23)	(24)	(23)
Other Federal Taxes	97	101	109	128	136	140	153
State Income Taxes	63	54	60	94	94	94	109
Other State and Local Taxes	1,028	937	920	927	951	951	1,069
Total Taxes	1,738	1,553	1,472	1,620	1,625	1,639	1,892
Total Operating Expenses	17,172	15,299	15,269	17,116	17,125	16,162	17.980
Operating Income	1,180	1,214	1,396	1,644	1,625	1,650	1,874
Other Operating Income	2	2	4	2	a	2	a
Allowance for Funds Used During Construction	9	15	22	26	25	31	26
Utility Operating Income	1,191	1,231	1,421	1,671	1,650	1,682	1,900
Other Income (Non-Operating) (Net)	(64)	29	129	140	159	69	92
Income Before Interest Charges	1,127	1,260	1,551	1,811	1,809	1,751	1,992
Interest on Long-Term Debt	448	460	469	591	632	663	712
Amortization of Debt Disc. Exp. and Premium	7	8	9	10	12	11	12
Other Intererst Expense (Net)	88	88	136	118	171	118	96
Total Interest Charges	543	556	614	719	814	792	819
Net Income Before Extraordinary Items	584	704	937	1,092	995	959	1,173
Extraordinary Items, Less Taxes	105	9	13	5	(2)	(2)	3
Net Income	689	713	950	1,097	993	961	1,176
Preferred Dividends	39	30	31	38	37	35	33
Common Dividends	677	570	622	744	716	787	793
Note:							
Number of Companies Reporting	60	61	63	54	58	53	53
Op. Rev. of Companies Reporting (Millions)	$16,508	$15,254	$15,353	$17,381	$17,584	$16,621	$18,424

a. Less than $500,000.
( ): Denotes negative.
Note: Data not directly comparable from year to year due to acquisitions and mergers. See page ix.

TABLE 12-3
COMPOSITE INCOME ACCOUNTS INVESTOR-OWNED GAS UTILITY INDUSTRY TRANSMISSION COMPANIES, 1975–1992

(Millions)

	1975	1980	1985	1989	1990	1991	1992
Total Operating Revenues	$11,898	$41,604	$45,738	$23,883	$21,756	$19,818	$20,193
Operation Expenses	8,463	36,075	39,635	18,920	16,429	14,789	14,295
Maintenance Expenses	187	405	523	594	629	625	639
Total Operation and Maintenance Expenses	8,650	36,480	40,158	19,514	17,058	15,414	14,934
Depreciation, Retirements, Depletion, etc.	896	1,238	1,449	1,228	1,181	1,299	1,065
Federal Income Taxes[a]	646	846	1,103	251	553	799	868
Provision for Deferred Federal Income Taxes	246	1,421	1,399	2,143	1,518	1,481	2,034
Portion of Current Federal Income Taxes Provided For in Prior Years	(221)	(1,069)	(1,189)	(1,970)	(1,399)	(1,721)	(1,882)
Investment Tax Credit Adjustment	48	77	49	4	1	(5)	1
Other Federal Taxes	22	52	92	96	95	107	115
State Income Taxes	52	92	101	89	85	84	191
Other State and Local Taxes	221	572	425	369	392	397	468
Total Taxes	1,014	1,991	1,980	981	1,245	1,143	1,795
Total Operating Expenses	10,560	39,709	43,587	21,723	19,484	17,856	17,795
Operating Income	1,338	1,895	2,151	2,159	2,272	1,962	2,398
Other Operating Income	a	3	125	a	a	a	a
Allowance for Funds Used During Construction	38	126	44	65	79	107	136
Utility Operating Income	1,376	2,024	2,320	2,225	2,351	2,070	2,531
Other Income (Non-Operating) (Net)	640	1,755	1,238	2,050	1,515	322	521
Income Before Interest Charges	2,016	3,779	3,558	4,285	3,866	2,392	3,052
Interest on Long-Term Debt	643	979	1,346	1,307	950	981	1,167
Amortization of Debt Disc. Exp. and Premium	7	8	9	96	37	41	29
Other Interest Expense (Net)	110	325	317	583	405	410	239
Total Infererst Charges	760	1,312	1,672	1,986	1,392	1,431	1,435
Net Income Before Extraordinary Items	1,256	2,467	1,886	2,299	2,474	961	1,617
Extraordinary Items, Less Taxes	0	(141)	(129)	(29)	(8)	(6)	(72)
Net Income	1,256	2,326	1,757	2,270	2,466	955	1,545
Preferred Dividends	79	142	164	63	26	23	21
Common Dividends	600	1,229	1,984	1,176	1,307	2,368	2,028
Note:							
Number of Companies Reporting	33	39	38	36	37	34	33
Op. Rev. of Companies Reporting (Millions)	$11,192	$37,971	$41,705	$21,194	$19,401	$17,156	$16,098

a. Less than $500,000.
( ): Denotes negative.
Note: Data not directly comparable from year to year due to acquisitions and mergers. See page ix.

TABLE 12-4
COMPOSITE INCOME ACCOUNTS INVESTOR-OWNED GAS UTILITY INDUSTRY INTEGRATED COMPANIES, 1986-1992

(Millions)

	1986	1987	1988	1989	1990	1991	1992
Total Operating Revenues	$12,348	$10,954	$11,254	$11,536	$10,117	$11,047	$10,274
Operation Expenses	9,765	8,465	8,637	8,693	7,525	9,696	7,606
Maintenance Expenses	273	262	277	293	302	341	333
Total Operation and Maintenance Expenses	10,038	8,727	8,914	8,986	7,827	10,037	7,939
Depreciation, Retirements, Depletion, etc.	373	441	479	584	618	713	727
Federal Income Taxes	171	440	294	140	63	184	200
Provision for Deferred Federal Income Taxes	343	186	146	201	216	175	101
Portion of Current Federal Income Taxes Provided For in Prior Years	(70)	(287)	(115)	(93)	(101)	(690)	(55)
Investment Tax Credit Adjustment	(5)	(3)	(9)	(7)	(8)	(8)	(7)
Other Federal Taxes	74	71	76	79	84	92	83
State Income Taxes	54	42	49	23	19	6	22
Other State and Local Taxes	465	429	452	555	549	609	545
Total Taxes	1,032	878	893	897	823	368	889
Total Operating Expenses	11,443	10,046	10,286	10,468	9,268	11,118	9,555
Operating Income	905	908	968	1,068	849	(72)	718
Other Operating Income	6	6	a	a	a	a	a
Allowance for Funds Used During Construction	6	9	9	9	27	20	6
Utility Operating Income	917	923	977	1,077	876	(52)	724
Other Income (Non-Operating) (Net)	206	208	15	267	413	140	27
Income Before Interest Charges	1,123	1,131	992	1,344	1,289	88	751
Interest on Long-Term Debt	355	356	349	366	430	471	281
Amortization of Debt Disc. Exp. and Premium	3	10	5	5	7	32	6
Other Interest Expense (Net)	166	172	228	335	311	240	81
Total Interest Charges	524	538	582	706	748	742	368
Net Income Before Extraordinary Items	599	593	410	638	541	(654)	383
Extraordinary Items, Less Taxes	14	21	14	0	0	90	(52)
Net Income	613	614	424	638	541	(564)	331
Preferred Dividends	38	34	36	28	33	27	65
Common Dividends	458	461	461	444	479	424	228
Note:							
Number of Companies Reporting	25	28	23	22	22	20	20
Op. Rev. of Companies Reporting (Millions)	$9,404	$10,243	$10,540	$10,801	$9,368	$10,149	$9,506

a. Less than $500,000.
( ): Denotes negative.
Note: Data not directly comparable from year to year due to acquisitions and mergers. See page ix.

GAS FACTS

TABLE 12-5

COMPOSITE INCOME ACCOUNTS
INVESTOR-OWNED GAS UTILITY INDUSTRY
COMBINATION COMPANIES, 1986–1992

(Millions)

	1986	1987	1988	1989	1990	1991	1992
Gas Operations							
Total Operating Revenues	$16,391	$14,824	$15,353	$16,183	$15,404	$15,245	$15,968
Operation Expenses	12,813	11,285	11,750	12,391	11,744	11,341	11,699
Maintenance Expenses	394	407	429	442	455	534	505
Total Operation and Maintenance Expenses	13,207	11,692	12,179	12,833	12,198	11,875	12,204
Depreciation, Retirements, Depletion, etc.	630	645	720	777	798	858	958
Federal Income Taxes	291	381	297	297	385	260	272
Provision for Deferred Federal Income Taxes	460	348	382	364	356	476	546
Portion of Current Federal Income Taxes Provided For in Prior Years	(289)	(286)	(304)	(300)	(430)	(426)	(422)
Investment Tax Credit Adjustment	14	b	(8)	(9)	7	(5)	(16)
Other Federal Taxes	97	99	101	109	115	123	122
State Income Taxes	72	76	62	83	65	64	61
Other State and Local Taxes	786	750	754	801	765	803	881
Total Taxes	1,431	1,368	1,284	1,345	1,264	1,296	1,444
Total Operating Expenses	15,268	13,705	14,183	14,955	14,260	14,029	14,606
Operating Income[a]	1,123	1,119	1,170	1,228	1,144	1,216	1,362
Total Operations							
Total Operating Revenues	$58,917	$56,839	$60,730	$61,993	$63,830	66,956	69,602
Operation Expenses	31,748	29,841	31,965	33,236	34,399	35,514	37,117
Maintenance Expenses	3,438	3,680	4,089	3,966	4,178	4,368	4,421
Total Operation and Maintenance Expenses	35,186	33,521	36,054	37,202	38,577	39,882	41,539
Depreciation, Retirements, Depletion, etc.	4,334	4,658	5,399	6,159	5,388	5,981	6,665
Federal Income Taxes	2,475	2,466	2,161	2,015	2,392	2,234	2,321
Provision for Deferred Federal Income Taxes	3,180	3,010	2,993	2,978	2,727	3,190	3,291
Portion of Current Federal Income Taxes Provided For in Prior Years	(1,136)	(1,623)	(2,330)	(2,722)	(1,989)	(2,007)	(2,118)
Investment Tax Credit Adjustment	40	21	(101)	(84)	(31)	(62)	(148)
Other Federal Taxes	410	450	483	483	522	541	565
State Income Taxes	489	430	457	470	477	514	491
Other State and Local Taxes	4,231	4,254	4,567	4,668	4,833	5,169	5,419
Total Taxes	9,689	9,008	8,230	7,809	8,931	9,578	9,822
Total Operating Expenses	49,208	47,187	49,683	51,170	52,896	55,441	58,025
Operating Income	9,708	9,652	11,046	10,822	10,934	11,515	11,577
Other Operating Income	31	13	b	b	b	b	b
Allowance for Funds Used During Construction	1,937	1,122	880	818	569	430	338
Utility Operating Income	11,676	10,787	11,927	11,640	11,503	11,945	11,916
Other Income (Non-Operating) (Net)	1,158	423	(443)	8	(447)	314	81
Income Before Interest Charges	12,834	11,210	11,484	11,648	11,056	12,259	11,997
Interest on Long-Term Debt	4,971	4,728	4,948	4,942	5,103	5,075	5,097
Amortization of Debt Disc. Exp. and Premium	62	79	92	96	110	116	139
Other Interest Expense (Net)	322	372	415	536	536	640	483
Total Interest Charges	5,355	5,179	5,455	5,574	5,749	5,831	5,719
Net Income Before Extraordinary Items	7,479	6,031	6,029	6,074	5,307	6,428	6,278
Extraordinary Items, Less Taxes	(206)	(1,079)	(1,365)	(52)	199	53	46
Net Income	7,273	4,952	4,664	6,022	5,506	6,481	6,324
Preferred Dividends	914	778	719	1,070	703	627	649
Common Dividends	4,425	4,609	4,639	4,270	4,222	4,663	4,964
Note:							
Number of Companies Reporting	54	53	52	53	51	51	50
Total Op. Revenues of Companies Reporting (Millions)	$58,444	$56,258	$60,358	$61,891	$63,676	$66,792	$69,520
Gas Revenues of Companies Reporting (Millions)	$16,260	$14,672	$15,259	$16,157	$15,367	$15,208	$15,949

a. Includes "Other Operating Income" which was less than $500,000 in each year.

b. Less than $500,000.

( ): Denotes negative.

Note: Data not directly comparable from year to year due to acquisitions and mergers. See page ix.

INCOME ACCOUNTS

TABLE 12-6
INVESTOR-OWNED GAS UTILITY INDUSTRY GAS OPERATION AND MAINTENANCE EXPENSES BY TYPE OF COMPANY, 1991-1992

(Millions)

Total Industry Type of Expense	1991		1992	
	Operation	Maintenance	Operation	Maintenance
Purchased Gas Cost and Production Exp.	$31,893	$ 0	$32,478	$ 0
Other Production and Purch. Exp. and Adjustments	2,061	171	1,989	119
Production and Purchases, Total	33,954	171	34,467	119
Storage	668	119	612	123
Transmission	2,875	590	2,555	552
Distribution	1,784	1,052	1,942	1,128
Customer Accounts	1,822	0	1,943	0
Sales	244	0	268	0
Administrative and General	7,020	103	5,727	134
Customer Service	465	0	513	0
Total	48,832	2,035	48,027	2,056

Distribution Companies Type of Expense	Operation	Maintenance	Operation	Maintenance
Purchased Gas Cost and Production Exp.	$9,529	$ 0	$10,540	$ 0
Other Production and Purch. Exp. and Adjustments	69	7	79	7
Production and Purchases, Total	9,598	7	10,619	7
Storage	53	29	57	29
Transmission	78	23	79	27
Distribution	752	438	826	475
Customer Accounts	772	0	862	0
Sales	110	0	122	0
Administrative and General	1,448	38	1,588	42
Customer Service	195	0	218	0
Total	13,006	535	14,371	580

Transmission Companies Type of Expense	Operation	Maintenance	Operation	Maintenance
Purchased Gas Cost and Production Exp.	$8,133	$ 0	$7,666	$ 0
Other Production and Purch. Exp. and Adjustments	1,775	69	1,670	73
Production and Purchases, Total	9,908	69	9,336	73
Storage	477	50	489	55
Transmission	2,361	497	2,369	501
Distribution	0	0	0	0
Customer Accounts	18	0	13	0
Sales	38	0	41	0
Administrative and General	1,980	9	2,042	10
Customer Service	7	0	5	0
Total	14,789	625	14,295	639

Integrated Companies Type of Expense	Operation	Maintenance	Operation	Maintenance
Purchased Gas Cost and Production Exp.	$ 5,746	$ 0	$ 5,323	$ 0
Other Production and Purch. Exp. and Adjustments	126	20	54	16
Production and Purchases, Total	5,872	20	5,377	16
Storage	70	21	66	20
Transmission	238	38	242	46
Distribution	405	238	370	210
Customer Accounts	464	0	412	0
Sales	48	0	46	0
Administrative and General	2,493	24	994	41
Customer Service	106	0	99	0
Total	9,696	341	7,606	333

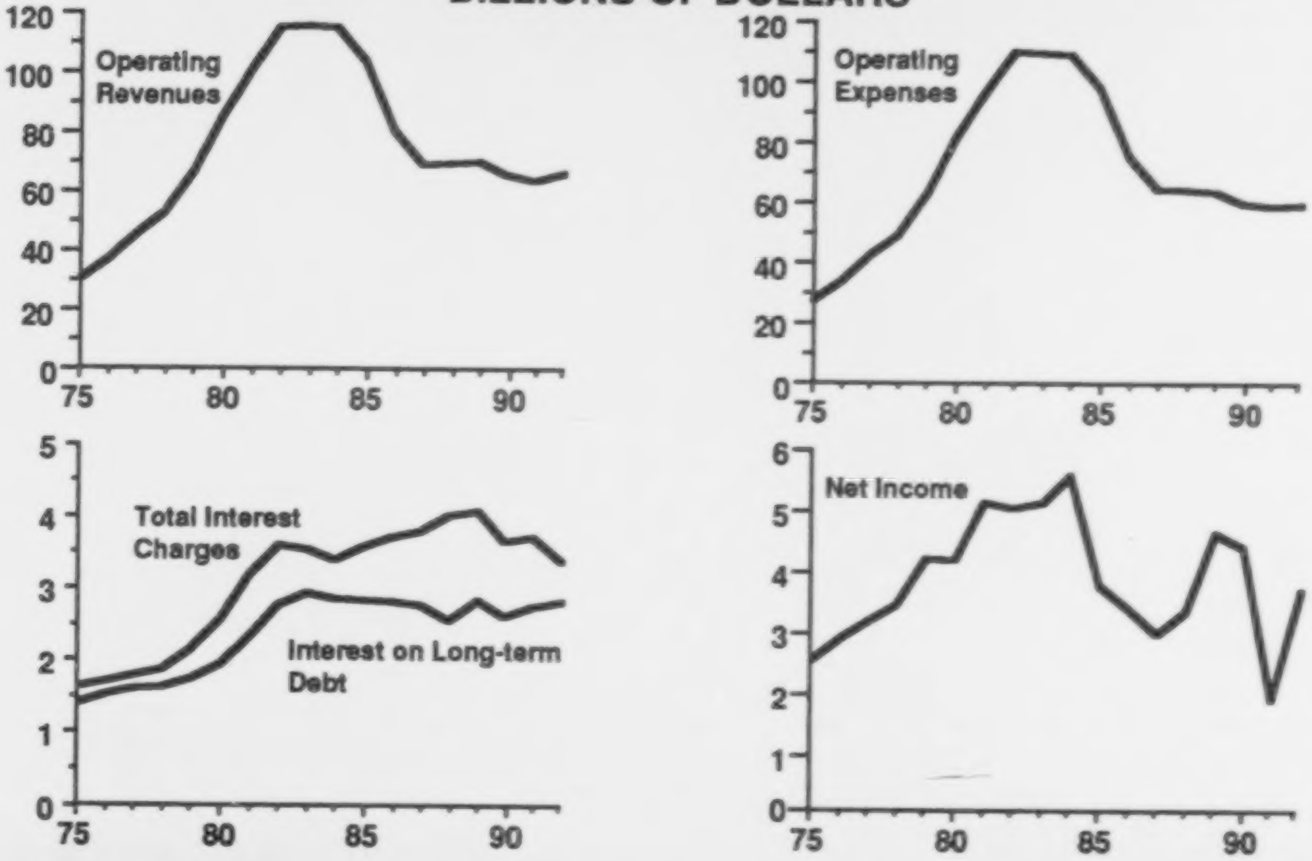
Combination Companies Type of Expense	Operation	Maintenance	Operation	Maintenance
Purchased Gas Cost and Production Exp.	$ 8,485	$ 0	$ 8,577	$ 0
Other Production and Purch. Exp. and Adjustments	91	75	346	28
Production and Purchases, Total	8,576	75	8,923	28
Storage	68	19	49	23
Transmission	198	32	127	32
Distribution	627	376	648	386
Customer Accounts	568	0	568	0
Sales	48	0	55	0
Administrative and General	1,099	32	1,163	36
Customer Service	157	0	166	0
Total	11,341	534	11,699	505

a. Less than $500,000.
Note: See note previous page.

CHART 12-1

GAS UTILITY INDUSTRY COMPOSITE INCOME ACCOUNTS (INVESTOR-OWNED)

BILLIONS OF DOLLARS

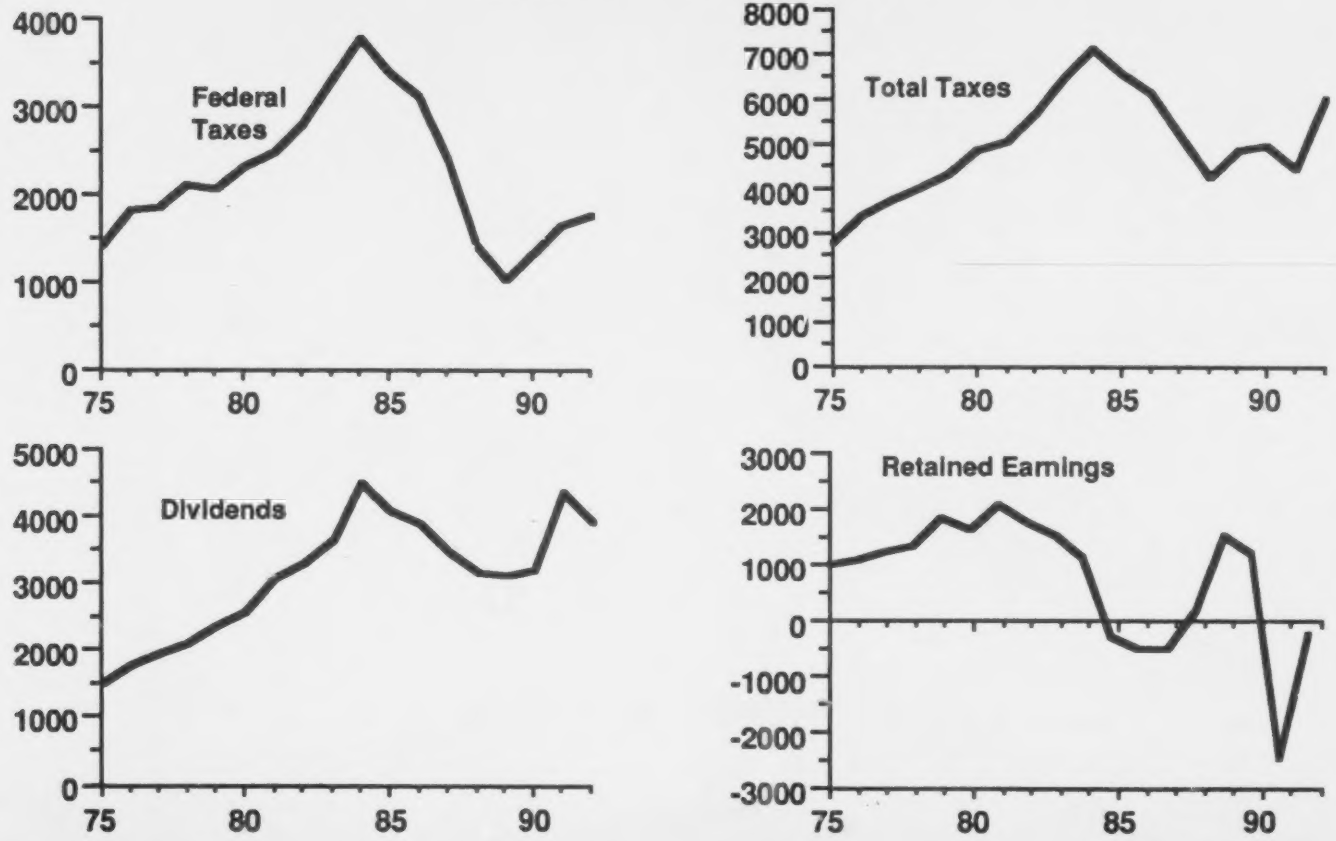


REFERENCE: TABLE 12-1

CHART 12-2

GAS UTILITY INDUSTRY DISPOSITION OF NET INCOME AND TAXES (INVESTOR-OWNED)

MILLIONS OF DOLLARS



REFERENCE: TABLE 12-1

SECTION 13
BALANCE SHEETS

	1992	% Change 92/91
Gas Utility Plant		
(Millions)		
Total Industry	$129,272	+ 7.9
Distribution	31,828	+11.1
Transmission	53,878	+11.2
Integrated	17,138	−10.4
Combination	26,428	+12.4
Total Common Equity		
(Millions)		
Total Industry	$ 44,212	+ 7.3
Distribution	9,984	+10.0
Transmission	22,379	+10.7
Integrated	4,378	−14.6
Combination	7,471	+10.0

BALANCE SHEETS

TABLE 13-1
COMPOSITE BALANCE SHEET ACCOUNTS INVESTOR-OWNED GAS UTILITY INDUSTRY TOTAL INDUSTRY, 1975–1992

(Millions)

	1975	1980	1985	1989	1990	1991[R]	1992
ASSETS							
Total Gas Utility Plant	$49,384	$67,071	$86,547	$106,017	$112,863	$119,772	$129,272
Less Accum. Prov. for Depr. and Amort.	16,779	26,162	36,377	47,054	49,483	52,400	57,005
Net Gas Utility Plant (Total)	32,605	40,909	50,170	58,963	63,380	67,372	76,267
Gas Stored Underground (Non-Current)[a]	0	0	1,574	1,546	1,590	1,565	1,691
Investment and Fund Accounts	9,198	15,530	23,871	28,111	23,872	22,883	21,883
Current and Accrued Assets	7,543	17,243	24,771	24,836	23,268	23,023	23,783
Deferred Debits[b]	940	2,169	4,092	10,364	9,576	9,277	9,776
Total Assets	50,286	75,851	104,478	123,820	121,686	124,120	129,400
LIABILITIES							
Common Stock	5,803	6,968	7,739	7,794	7,503	7,775	8,230
Retained Earnings	7,911	13,122	18,893	18,909	17,792	16,421	17,108
Other Paid-in Capital[c]	3,245	5,597	9,450	15,023	16,394	17,018	18,874
Total Common Equity	16,959	25,687	36,082	41,726	41,690	41,214	44,212
Preferred Stock	2,541	3,628	3,435	2,163	2,120	2,221	2,106
Total Capital Stock	19,500	29,315	39,517	43,889	43,810	43,435	46,318
Bonds	10,493	9,574	9,378	10,995	11,948	10,978	13,037
Debentures	5,174	5,819	7,739	11,021	8,940	9,147	8,493
Other Long-Term Debt	3,877	6,674	9,165	8,848	10,435	11,903	13,335
Total Long-Term Debt	19,544	22,067	26,282	30,864	31,148	32,028	34,865
Total Capitalization	39,044	51,382	65,799	74,753	74,958	75,463	81,183
Current and Accrued Liabilities	8,158	18,119	26,125	31,005	29,550	28,128	26,438
Deferred Credits	752	1,683	3,779	4,870	4,277	5,972	7,024
Non-Current Liabilities[d]	194	428	879	1,788	1,456	3,913	3,709
Contributions in Aid of Construction	86	90	127	112	84	117	94
Accumulated Deferred Income Taxes[e]	2,052	4,149	7,769	11,292	11,360	10,527	10,952
Total Liabilities	50,286	75,851	104,478	123,820	121,686	124,120	129,400

a. First year this category is broken out is 1985.
b. Includes "Capital Stock Discount and Expense" and "Reacquired Securities."
c. Includes accounts formerly detailed in "Premiums, Assessments, etc." and "Capital Surplus."
d. Formerly called "Operating Reserves."
e. Includes "Reserves for Deferred Income Taxes."
R—Revised.
Note: Data not directly comparable from year to year due to acquisitions and mergers. See page ix.

TABLE 13-2
COMPOSITE BALANCE SHEET ACCOUNTS INVESTOR-OWNED GAS UTILITY INDUSTRY DISTRIBUTION COMPANIES, 1985–1992

(Millions)

	1985	1986	1987	1989	1990	1991	1992
ASSETS							
Total Gas Utility Plant	$17,383	$17,911	$19,320	$25,098	$27,329	$28,657	$31,828
Less Accum. Prov. for Depr. and Amort.	5,631	5,833	6,277	8,192	8,908	9,398	10,860
Net Gas Utility Plant (Total)	11,752	12,078	13,043	16,906	18,421	19,259	20,968
Gas Stored Underground (Non-Current)	124	145	127	176	171	105	172
Investment and Fund Accounts	1,136	758	909	1,127	1,191	1,280	1,310
Current and Accrued Assets	4,864	4,054	3,845	4,844	4,826	4,916	5,414
Deferred Debits	334	386	479	918	963	1,117	1,470
Total Assets	18,210	17,421	18,403	23,971	25,572	26,677	29,334
LIABILITIES							
Common Stock	1,205	1,189	1,340	2,113	2,171	2,274	2,343
Retained Earnings	2,917	2,467	2,461	3,676	3,921	3,920	4,544
Other Paid-in Capital	1,502	1,762	2,094	2,184	2,595	2,883	3,097
Total Common Equity	5,624	5,418	5,895	7,973	8,687	9,077	9,984
Preferred Stock	441	382	391	515	511	583	558
Total Capital Stock	6,065	5,800	6,286	8,488	9,198	9,660	10,542
Bonds	2,756	2,963	2,950	4,413	4,697	4,932	4,725
Debentures	537	700	914	1,115	1,103	1,105	1,108
Other Long-Term Debt	1,171	1,189	1,198	1,142	1,402	1,880	2,548
Total Long-Term Debt	4,464	4,852	5,062	6,670	7,201	7,919	8,381
Total Capitalization	10,529	10,652	11,348	15,158	16,400	17,577	18,923
Current and Accrued Liabilities	5,054	4,186	4,314	5,457	5,717	5,468	6,240
Deferred Credits	969	923	973	1,175	1,141	1,332	1,609
Non-Current Liabilities[a]	54	43	54	132	147	155	171
Contributions in Aid of Construction	116	123	117	100	59	91	89
Accumulated Deferred Income Taxes[b]	1,488	1,494	1,597	1,949	2,108	2,054	2,302
Total Liabilities	18,210	17,421	18,403	23,971	25,572	26,677	29,334

a. Formerly called "Operating Reserves."

b. Includes "Reserves for Deferred Income Taxes."

Note: Data not directly comparable from year to year due to acquisitions and mergers. See page ix.

BALANCE SHEETS

TABLE 13-3
COMPOSITE BALANCE SHEET ACCOUNTS INVESTOR-OWNED GAS UTILITY INDUSTRY TRANSMISSION COMPANIES, 1975-1992

(Millions)

	1975	1980	1985	1989	1990	1991[R]	1992
ASSETS							
Total Gas Utility Plant	$20,351	$30,334	$39,076	$43,478	$45,233	$48,467	$53,878
Less Accum. Prov. for Depr. and Amort.	8,636	14,361	21,126	25,518	26,162	27,475	29,792
Net Gas Utility Plant (Total)	11,714	15,973	17,950	17,960	19,071	20,992	24,086
Gas Stored Underground (Non-Current)[a]	0	0	868	835	885	919	1,039
Investment and Fund Accounts	6,791	11,998	14,914	22,535	18,481	16,760	17,045
Current and Accrued Assets	3,459	8,432	14,494	13,115	11,886	11,152	11,271
Deferred Debits[b]	516	1,371	2,311	6,779	5,248	5,208	5,251
Total Assets	22,480	37,774	50,537	61,224	55,571	55,031	58,692
LIABILITIES							
Common Stock	1,984	2,610	2,694	1,627	1,140	1,163	1,481
Retained Earnings	4,010	7,984	11,102	10,980	9,551	8,876	8,773
Other Paid-in Capital[c]	1,891	3,414	5,008	9,877	10,056	10,181	12,125
Total Common Equity	7,885	14,008	18,804	22,484	20,748	20,220	22,379
Preferred Stock	1,012	1,734	1,361	218	192	174	161
Total Capital Stock	8,897	15,742	20,165	22,702	20,940	20,394	22,540
Bonds	3,125	2,398	900	1,162	1,800	491	2,194
Debentures	3,124	3,732	5,529	6,718	4,160	4,526	3,969
Other Long-Term Debt	2,167	4,114	5,117	4,491	5,150	5,633	7,692
Total Long-Term Debt	8,415	10,244	11,546	12,271	11,111	10,650	13,855
Total Capitalization	17,312	25,986	31,711	34,973	32,050	31,044	36,395
Current and Accrued Liabilities	3,802	9,067	13,028	17,625	16,049	15,434	13,599
Deferred Credits	295	495	998	1,629	1,203	2,397	2,892
Non-Current Liabilities[d]	113	174	580	1,458	1,109	1,310	1,040
Contributions in Aid of Construction	0	0	5	5	22	23	0
Accumulated Deferred Income Taxes[e]	959	2,052	4,215	5,534	5,137	4,822	4,766
Total Liabilities	22,480	37,774	50,537	61,224	55,571	55,031	58,692

a. First year this category is broken out is 1985.
b. Includes "Capital Stock Discount and Expense."
c. Includes accounts formerly detailed in "Premiums. Assessments, etc." and "Capital Surplus."
d. Formerly called "Operating Reserves."
e. Includes "Reserves for Deferred Income Taxes."
R–Revised.
Note: Data not directly comparable from year to year due to acquisitions and mergers. See page ix.

TABLE 13-4
COMPOSITE BALANCE SHEET ACCOUNTS INVESTOR-OWNED GAS UTILITY INDUSTRY INTEGRATED COMPANIES, 1985-1992

(Millions)

	1985	1986	1987	1989	1990	1991	1992
ASSETS							
Total Gas Utility Plant	$14,203	$12,236	$13,808	$16,760	$18,534	$19,129	$17,138
Less Accum. Prov. for Depr. and Amort.	5,743	4,305	5,079	7,028	7,526	7,746	7,370
Net Gas Utility Plant (Total)	8,460	7,931	8,729	9,732	11,008	11,383	9,768
Gas Stored Underground (Non-Current)	442	371	415	339	341	337	277
Investment and Fund Accounts	7,354	2,520	2,887	3,339	3,005	3,634	2,279
Current and Accrued Assets	3,726	3,180	3,293	4,790	4,442	4,711	4,710
Deferred Debits	538	390	583	858	1,603	1,105	757
Total Assets	20,520	14,392	15,907	19,058	20,399	21,170	17,791
LIABILITIES							
Common Stock	1,808	1,497	1,932	1,548	1,644	1,660	1,431
Retained Earnings	3,058	2,110	2,307	2,206	2,218	1,340	1,260
Other Paid-in Capital	1,766	1,223	798	1,342	2,050	2,124	1,687
Total Common Equity	6,632	4,830	5,037	5,096	5,912	5,124	4,378
Preferred Stock	439	398	451	359	360	370	250
Total Capital Stock	7,071	5,228	5,488	5,455	6,272	5,494	4,628
Bonds	1,352	1,179	1,344	397	319	324	343
Debentures	1,537	1,299	1,265	2,857	3,045	3,023	2,880
Other Long-Term Debt	1,940	1,715	1,605	1,582	2,229	2.581	1,227
Total Long-Term Debt	4,829	4,193	4,214	4,837	5,592	5,928	4,450
Total Capitalization	11,900	9,421	9,702	10,292	11,864	11,422	9,078
Current and Accrued Liabilities	6,401	3,424	4,056	5,823	5,556	4,869	3,943
Deferred Credits	982	596	691	832	676	971	945
Non-Current Liabilities[a]	133	22	59	55	70	2,339	2,371
Contributions in Aid of Construction	b	b	b	b	b	b	b
Accumulated Deferred Income Taxes[c]	1,104	929	1,399	2,056	2,233	1,569	1,454
Total Liabilities	20,520	14,392	15,907	19,058	20,399	21,170	17,791

a. Formerly called "Operating Reserves."
b. Less than $500,000.
c. Includes "Reserves for Deferred Income Taxes."
Note: Data not directly comparable from year to year due to acquisitions and mergers. See page ix.

TABLE 13-5
COMPOSITE BALANCE SHEET ACCOUNTS INVESTOR-OWNED GAS UTILITY INDUSTRY COMBINATION COMPANIES, 1985-1992

(Millions)

	1985	1986	1987	1989	1990	1991[R]	1992
ASSETS							
Electric	$107,117	$110,397	$123,697	$134,262	$142,293	$151,414	$161,892
Gas	15,552	16,723	17,240	20,220	21,218	22,786	24,815
Other	5,338	6,162	7,995	6,545	6,932	7,652	8,335
Total Utility Plant	128,007	133,282	148,932	161,027	170,422	181,852	195,042
Construction Work in Progress	32,611	26,248	17,411	9,740	7,542	5,297	6,729
Less Accum. Prov. for Depr. and Amort.	38,898	40,329	43,738	51,720	55,878	61,455	68,131
Net Utility Plant	121,720	119,201	122,605	119,047	122,107	125,694	133,640
Gas Stored Underground (Non-Current)	140	148	194	196	193	204	203
Decommissioning Funds[a]	0	0	0	0	670	1,057	1,407
Investment and Fund Accounts	4,686	5,093	5,322	9,090	9,693	9,549	9,473
Current and Accrued Assets	16,921	15,919	14,967	17,086	17,156	17,721	18,114
Deferred Debits	9,124	10,161	11,851	14,816	14,296	14,591	17,430
Total Assets	152,591	150,522	154,939	160,235	164,115	168,816	180,267
LIABILITIES							
Common Stock	20,382	18,995	19,913	20,524	20,678	21,153	22,564
Retained Earnings	18,218	18,895	17,651	16,761	17,054	18,047	19,194
Other Paid-in Capital	11,780	12,396	12,508	13,268	13,736	14,451	14,905
Total Common Equity	50,380	50,286	50,072	50,553	51,468	53,651	56,663
Preferred Stock	11,980	10,413	9,637	8,769	8,574	8,641	8,623
Total Capital Stock	62,360	60,699	59,709	59,322	60,042	62,292	65,286
Bonds	43,834	41,573	42,739	41,123	41,641	41,315	43,798
Debentures	1,361	1,962	1,753	3,531	3,717	3,889	4,064
Other Long-Term Debt	9,394	9,587	10,375	13,372	13,421	14,291	14,171
Total Long-Term Debt	54,589	53,122	54,867	58,026	58,724	59,495	62,033
Total Capitalization	116,949	113,821	114,576	117,348	118,821	121,787	127,319
Current and Accrued Liabilities	16,477	16,139	15,826	17,194	18,748	19,669	21,555
Deferred Credits	8,326	7,925	9,135	10,110	10,196	10,042	11,966
Non-Current Liabilities[b]	1,123	1,222	1,471	1,170	1,051	858	962
Contribution in Aid of Construction	64	76	72	57	26	25	37
Accumulated Deferred Income Taxes[c]	9,652	11,339	13,859	14,356	15,273	16,435	18,428
Total Liabilities	152,591	150,522	154,939	160,235	164,115	168,816	180,267

a. First year this category is broken out is 1990.

b. Formerly called "Operating Reserves."

c. Includes "Reserves for Deferred Income Taxes."

R–Revised.

Note: Data not directly comparable from year to year due to acquisitions and mergers. See page ix.

TABLE 13-6
TOTAL GAS UTILITY INDUSTRY PLANT BY TYPE OF COMPANY AND BY PLANT FUNCTION, 1975–1992

(Millions)

	1975	1980	1985	1989	1990	1991	1992
Total Industry							
Total Gas Utility Plant	**$51,004**	**$69,275**	**$88,717**	**$108,396**	**$116,020**	**$123,099**	**$130,909**
Production	4,776	8,199	10,511	7,773	7,518	6,845	6,640
Underground Storage	2,697	4,529	4,305	4,656	5,343	5,297	5,231
Other Storage	700	672	717	435	443	528	709
LNG	a	284	262	709	775	620	620
Transmission	20,530	25,418	33,969	41,156	44,148	48,039	52,224
Distribution	19,151	24,923	33,397	45,158	47,649	50,882	52,652
General and Intangible[b]	2,226	3,470	4,438	6,263	7,111	7,422	8,414
Construction Work in Progress	924	1,780	1,118	2,246	2,733	3,244	4,027
Plant Held for Future Use[c]					300	318	304
Total Investor-Owned Industry							
Total Gas Utility Plant	**$49,384**	**$67,071**	**$86,547**	**$105,556**	**$112,863**	**$119,772**	**$125,408**
Production	4,687	8,019	10,347	7,482	7,208	6,528	6,134
Underground Storage	2,639	4,451	4,286	4,633	5,318	5,272	5,189
Other Storage	648	632	617	418	426	503	558
LNG	a	273	241	602	661	467	493
Transmission	20,307	25,298	33,930	41,107	44,090	47,886	52,146
Distribution	18,080	23,343	31,906	43,161	45,445	48,554	48,758
General and Intangible[b]	2,125	3,334	4,155	6,007	6,822	7,077	7,876
Construction Work in Progress	896	1,721	1,065	2,146	2,593	3,167	3,881
Plant Held for Future Use[c]					300	318	304
Distribution Companies							
Total Gas Utility Plant	**$ 8,547**	**$10,990**	**$17,383**	**$25,098**	**$27,329**	**$28,657**	**$31,828**
Production	387	539	656	478	551	537	547
Underground Storage	460	627	572	851	1,014	1,084	1,081
Other Storage	172	140	200	128	140	164	182
LNG	a	91	151	221	276	252	245
Transmission	425	338	581	1,051	1,606	1,677	1,876
Distribution	6,452	8,569	13,720	20,121	20,777	21,682	24,328
General and Intangible[b]	479	599	1,308	1,844	2,508	2,713	3,067
Construction Work in Progress	173	87	195	404	453	544	449
Plant Held for Future Use[c]					4	4	25
Transmission Companies							
Total Gas Utility Plant	**$20,351**	**$30,334**	**$39,076**	**$43,478**	**$45,233**	**$48,467**	**$53,878**
Production	2,650	5,098	7,204	5,237	4,855	4,219	4,053
Underground Storage	1,299	2,340	2,325	2,424	2,530	2,743	2,745
Other Storage	113	175	143	130	130	184	279
LNG	a	160	41	29	29	71	88
Transmission	15,322	20,194	27,400	32,546	34,226	37,511	42,424
Distribution	5	7	6	7	0	0	0
General and Intangible[b]	587	1,204	1,583	2,020	2,068	2,076	2,299
Construction Work in Progress	375	1,156	374	1,085	1,253	1,500	1,831
Plant Held for Future Use[c]					142	163	144
Integrated Companies							
Total Gas Utility Plant	**$10,960**	**$13,756**	**$14,203**	**$16,760**	**$18,534**	**$19,129**	**$17,138**
Production	1,240	1,914	1,937	1,244	1,269	1,289	981
Underground Storage	531	961	916	876	1,258	890	845
Other Storage	62	103	85	0	0	30	16
LNG	a	14	5	254	255	23	27
Transmission	3,418	3,308	4,026	5,205	5,746	6,068	5,390
Distribution	4,809	6,191	6,338	7,653	8,163	9,016	8,094
General and Intangible[b]	748	1,029	733	1,332	1,500	1,421	1,545
Construction Work in Progress	151	236	163	196	337	388	223
Plant Held for Future Use[c]					6	4	6
Combination Companies							
Total Gas Utility Plant	**$ 9,526**	**$11,991**	**$15,885**	**$20,220**	**$21,767**	**$23,519**	**$22,564**
Production	410	468	550	523	533	483	553
Underground Storage	348	523	473	482	516	555	518
Other Storage	301	214	189	160	156	125	81
LNG	a	8	44	98	101	121	133
Transmission	1,144	1,458	1,923	2,305	2,512	2,630	2,456
Distribution	6,816	8,576	11,842	15,380	16,505	17,856	16,336
General and Intangible[b]	310	502	531	811	746	867	965
Construction Work in Progress	197	242	333	461	550	735	1,378
Plant Held for Future Use[c]					148	147	129

[a] Not available.

[b] Includes plant acquisition adjustments and plant adjustments.

[c] First year this category is broken out is 1990.

Note: Data not directly comparable from year to year due to acquisitions and mergers. See page ix.

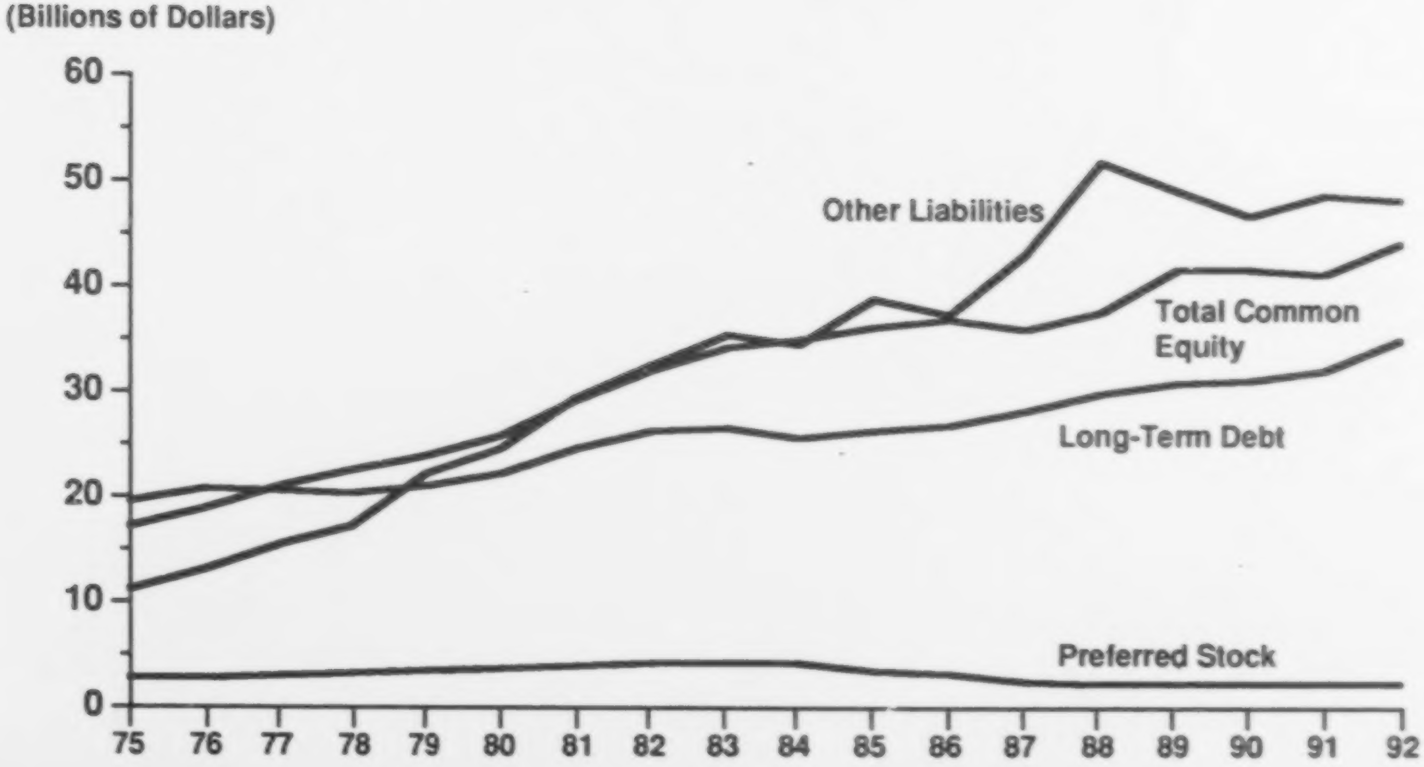
SECTION 14
ANALYTICAL RATIOS

	1992	% Change 92/91
Capitalization Represented by (%)		
Long-term Debt	42.9	+ 1.2
Preferred Stock	2.6	−10.3
Common Equity	54.5	− 0.2

The analytical ratios in this section have been calculated on a consistent basis for all years. These ratios are considered to be an acceptable set of indicators which provide trends on the condition of the investor-owned gas utility industry. Please contact the statistics department at A.G.A. for details of the formulas used to calculate these analytical ratios.

CHART 13-1

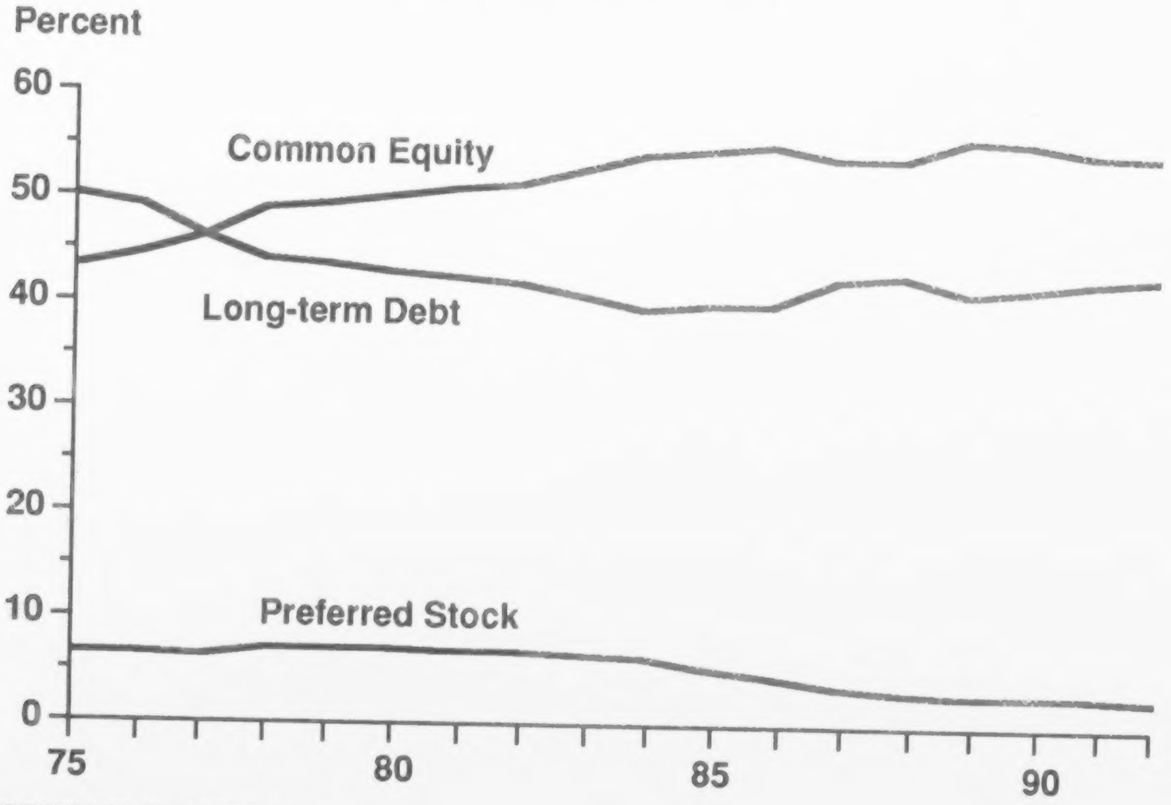
GAS UTILITY INDUSTRY INVESTMENT
(INVESTOR-OWNED)



REFERENCE: TABLE 13-1

CHART 14-1

GAS UTILITY INDUSTRY TOTAL CAPITALIZATION
(INVESTOR OWNED)



REFERENCE: TABLE 14-1

ANALYTICAL RATIOS

TABLE 14-1
SELECTED COMPOSITE ANALYTICAL RATIOS
INVESTOR-OWNED GAS UTILITY INDUSTRY
TOTAL INDUSTRY, 1975-1992

	1975	1980	1985	1989	1990	1991^R	1992
Earnings							
Utility Operating Income as % of Total Plant	6.5	6.7	7.0	5.8	5.2	4.0	4.9
Utility Operating Income as % of Net Plant	9.9	10.9	12.0	10.4	9.6	7.1	8.3
Operating Revenue as % of Total Plant	61.9	128.1	120.1	66.4	58.7	53.4	51.3
Common Dividend Payout Ratio	57.2	58.2	108.2	65.1	71.2	241.4	106.2
Return on Common Equity	13.7	15.2	9.3	10.5	10.1	4.2	7.9
Return on Average Common Equity	14.3	15.8	9.5	11.0	10.1	4.2	8.1
Return on Net Plant	7.1	9.5	6.7	7.4	6.7	2.6	4.6
Pretax Coverage of:							
Total Interest Expense[a]	3.3	3.5	3.0	2.5	2.6	1.7	2.8
Long-Term Debt Interest Expense[a]	3.8	4.6	3.8	3.4	3.6	2.3	3.3
Allowance for Funds Used During Construction as % of Net Income	5.2	7.6	7.0	3.7	4.3	10.7	5.8
Expenses							
Operating Expenses as % of Operating Revenue	90.0	95.2	94.6	91.4	90.8	92.6	90.4
Maintenance Expenses as % of Total Plant	1.4	1.8	1.9	1.7	1.7	1.7	1.6
Depreciation Expenses as % of Total Plant	3.6	3.6	3.7	3.2	3.1	3.2	3.0
Depreciation Expenses as % of Depreciable Plant	3.6	4.1	3.7	3.3	3.3	3.3	3.3
Total Taxes as % of Total Plant	5.6	7.2	7.6	4.6	4.4	3.7	4.7
Total Taxes as % of Net Plant	8.5	11.8	13.1	8.2	7.8	6.6	7.9
Total Taxes as % of Net Income plus Total Taxes	53.9	53.6	63.5	51.1	52.9	70.1	62.1
Current Federal Income Tax as % of Net Income plus current Federal Income Tax[b]	30.4	27.4	40.0	17.6	22.9	45.9	31.8
Plant							
Total Plant as % of Total Operating Revenue	161.6	78.1	83.3	150.7	170.3	187.4	195.0
Net Plant as % of Total Operating Revenue	106.7	47.6	48.3	83.8	95.7	105.4	115.1
Depreciation Reserve as % of Total Plant	34.0	39.0	42.0	44.4	43.9	43.7	44.1
Depreciation Reserve as % of Depreciable Plant	35.8	44.0	43.1	44.8	45.6	44.3	46.2
Total Plant per Employee ($000)	251.6	328.1	423.2	551.6	552.4	590.6	621.5
Capitalization							
Long-term Debt as % of Net Plant	59.4	53.9	52.4	52.3	49.1	47.5	45.7
% Total Capitalization Represented by:							
a. Long-term Debt	50.1	42.9	40.0	41.3	41.6	42.4	42.9
b. Preferred Stock	6.5	7.1	5.2	2.9	2.8	2.9	2.6
c. Common Equity	43.4	50.0	54.8	55.8	55.6	54.6	54.5
% Current Year Financing of Construction Expenditures Represented by:							
a. Internal Sources	53.8	55.3	71.8	63.1	60.5	62.8	71.3
b. Equity Issues	11.9	11.2	7.9	4.3	6.4	7.3	2.3
c. Debt Issues	34.3	33.5	20.3	32.6	33.1	29.9	26.3

a. Reflects pre-federal income tax coverage.
b. Includes "Investment Tax Credit Adjustment."
R-Revised.

TABLE 14-2
SELECTED COMPOSITE ANALYTICAL RATIOS
INVESTOR-OWNED GAS UTILITY INDUSTRY
DISTRIBUTION COMPANIES, 1986-1992

	1986	1987	1988	1989	1990	1991[R]	1992
Earnings							
Utility Operating Income as % of Total Plant	6.6	6.4	6.7	6.6	6.0	5.9	5.9
Utility Operating Income as % of Net Plant	9.9	9.4	9.8	9.7	9.0	8.7	8.9
Operating Revenue as % of Total Plant	102.5	85.5	79.4	74.8	68.6	62.2	62.4
Common Dividend Payout Ratio	104.2	83.5	67.7	70.3	74.9	85.0	69.4
Return on Common Equity	12.0	11.6	13.5	13.3	11.0	10.2	11.4
Return on Average Common Equity	a	12.1	a	a	a	a	12.0
Return on Net Plant	5.4	5.2	6.4	6.3	5.2	4.8	5.5
Pretax Interest Coverage of:							
Total Interest Expense[b]	3.1	3.1	3.2	3.2	3.1	2.8	3.1
Long-Term Debt Interest Expense[b]	3.7	3.7	4.1	3.6	3.4	3.3	3.6
Allowance for Funds Used During Construction as % of Net Income	1.3	2.1	2.3	2.4	2.5	3.1	2.2
Expenses							
Operating Expenses as % of Operating Revenue	93.6	92.6	91.6	91.2	91.3	90.7	90.6
Maintenance Expenses as % of Total Plant	2.4	2.2	2.1	2.1	1.9	1.9	1.8
Depreciation Expenses as % of Total Plant	3.5	3.3	3.3	3.4	3.5	3.4	3.6
Depreciation Expenses as % of Depreciable Plant	3.6	3.3	3.3	2.9	3.6	3.6	3.7
Total Taxes as % of Total Plant	9.7	8.0	7.0	6.5	6.0	5.7	5.9
Total Taxes as % of Net Plant	14.4	11.9	10.3	9.6	8.8	8.5	9.0
Total Taxes as % of Net Income plus Total Taxes	71.6	68.5	60.8	59.6	62.1	63.0	61.7
Current Federal Income Tax as % of Net Income plus current Federal Income Tax[c]	38.6	37.2	27.5	22.4	26.4	28.3	25.4
Plant							
Total Plant as % of Total Operating Revenue	97.6	117.0	125.9	133.8	145.8	160.9	160.3
Net Plant as % of Total Operating Revenue	65.8	79.0	85.6	90.1	98.2	108.1	105.6
Depreciation Reserve as % of Total Plant	32.6	32.5	32.1	32.6	32.6	32.8	34.1
Depreciation Reserve as % of Depreciable Plant	33.1	33.2	32.8	28.6	33.8	34.0	35.3
Total Plant per Employee ($000)	301.9	325.0	352.3	391.7	426.3	454.9	482.2
Capitalization							
Long-term Debt as % of Net Plant	40.2	38.8	41.4	39.5	39.1	41.1	40.0
% Total Capitalization Represented by:							
a. Long-term Debt	45.5	44.6	45.0	44.0	43.9	45.1	49.6
b. Preferred Stock	3.6	3.4	3.0	3.4	3.1	3.3	2.9
c. Common Equity	50.9	52.0	52.0	52.6	53.1	51.6	52.8
% Current Year Financing of Construction Expenditures Represented by:							
a. Internal Sources	52.9	56.9	47.4	67.6	60.7	51.7	57.7
b. Equity Issues	7.9	14.6	14.4	7.1	8.3	11.1	7.8
c. Debt Issues	39.2	28.5	38.2	25.2	31.0	37.2	34.5

a. Not available.
b. Reflects pre-federal income tax coverage.
c. Includes "Investment Tax Credit Adjustment."
R—Revised.

ANALYTICAL RATIOS

TABLE 14-3
SELECTED COMPOSITE ANALYTICAL RATIOS
INVESTOR-OWNED GAS UTILITY INDUSTRY
TRANSMISSION COMPANIES, 1975-1992

	1975	1980	1985	1989	1990	1991[R]	1992
Earnings							
Utility Operating Income as % of Total Plant	6.8	6.7	5.9	5.0	5.2	4.3	4.7
Utility Operating Income as % of Net Plant	11.7	12.7	12.9	12.0	12.3	10.8	12.1
Operating Revenue as % of Total Plant	58.5	137.2	117.0	54.9	48.1	40.9	37.5
Common Dividend Payout Ratio	50.9	56.3	124.5	53.3	53.5	154.1	33.1
Return on Common Equity	14.9	15.6	8.5	9.8	11.8	4.6	6.8
Return on Average Common Equity	15.8	16.4	8.5	b	11.3	b	b
Return on Net Plant	10.1	13.8	8.9	12.3	12.8	4.4	6.3
Pretax Coverage of:							
Total Interest Expense[a]	3.6	3.9	2.9	2.4	5.3	2.1	2.8
Long-Term Debt Interest Expense[a]	4.3	5.2	3.7	3.5	4.7	3.0	3.5
Allowance for Funds Used During Construction of % of Net Income	3.0	5.4	2.5	2.9	3.2	11.2	8.8
Expenses							
Operating Expenses as % of Operating Revenue	88.8	95.4	95.3	91.2	89.6	90.1	88.1
Maintenance Expenses as % of Total Plant	0.9	1.3	1.3	1.4	1.4	1.3	1.2
Depreciation Expenses as % of Total Plant	4.4	4.1	3.8	2.8	2.6	2.7	2.0
Depreciation Expenses as % of Depreciable Plant	4.4	4.5	3.8	3.1	2.7	2.8	2.1
Total Taxes as % of Total Plant	5.0	6.6	5.1	2.3	2.8	2.4	3.3
Total Taxes as % of Net Plant	8.6	12.5	11.0	5.5	6.5	5.4	7.5
Total Taxes as % of Net Income plus Total Taxes	44.6	46.1	53.0	30.2	33.6	54.5	53.7
Current Federal Income Tax as % of Net Income plus current Federal Income Tax[c]	35.6	28.4	39.6	10.1	18.3	45.4	36.0
Plant							
Total Plant as % of Total Operating Revenue	171.0	72.9	85.4	182.1	207.9	244.6	266.8
Net Plant as % of Total Operating Revenue	98.5	38.4	39.2	75.4	87.7	105.9	119.3
Depreciation Reserve as % of Total Plant	42.4	47.3	54.1	58.7	57.8	56.7	55.3
Depreciation Reserve as % of Depreciable Plant	43.8	52.1	55.5	63.6	59.9	59.2	57.9
Total Plant per Employee ($000)	547.1	673.1	844.0	1,170.9	1,209.4	1,278.8	1,184.1
Capitalization							
Long-term Debt as % of Net Plant	71.8	64.1	64.3	68.3	51.7	50.7	57.5
% Total Capitalization Represented by:							
a. Long-term Debt	48.6	39.4	36.4	35.1	30.7	34.3	38.1
b. Preferred Stock	5.8	6.7	4.3	0.6	0.6	0.6	0.4
c. Common Equity	45.5	53.9	59.3	64.3	64.7	65.1	61.5
% Current Year Financing of Construction Expenditures Represented by:							
a. Internal Sources	55.4	65.1	75.9	64.0	64.2	65.4	72.3
b. Equity Issues	3.7	6.0	0.0	0.0	4.5	0.0	0.0
c. Debt Issues	40.9	28.9	24.1	36.0	31.3	34.6	27.7

a. Reflects pre-federal income tax coverage.
b. Not available.
c. Includes "Investment Tax Credit Adjustment."
R—Revised.

TABLE 14-4
SELECTED COMPOSITE ANALYTICAL RATIOS INVESTOR-OWNED GAS UTILITY INDUSTRY INTEGRATED COMPANIES, 1986-1992

	1986	1987	1988	1989	1990	1991[R]	1992
Earnings							
Utility Operating Income as % of Total Plant	7.5	6.7	6.7	6.4	4.7	a	4.2
Utility Operating Income as % of Net Plant	11.6	10.6	10.9	11.0	8.0	a	7.4
Operating Revenue as % of Total Plant	100.9	79.3	78.3	68.8	54.6	57.8	60.0
Common Dividend Payout Ratio	79.7	79.5	118.8	72.8	94.3	a	85.5
Return on Common Equity	11.9	11.5	8.7	12.0	8.6	a	6.1
Return on Average Common Equity	a	11.8	a	a	9.2	a	5.6
Return on Net Plant	7.3	6.6	4.4	6.3	4.6	a	2.7
Pretax Coverage of:							
Total Interest Expense[b]	3.0	2.7	2.3	2.3	1.8	a	2.7
Long-Term Debt Interest Expense[b]	4.4	4.1	3.7	4.1	3.1	a	3.5
Allowance for Funds Used During Construction as % of Net Income	1.0	1.5	2.1	1.4	5.0	a	1.8
Expenses							
Operating Expenses as % of Operating Revenue	92.7	91.7	91.4	90.7	91.6	100.6	93.0
Maintenance Expenses as % of Total Plant	2.2	1.9	1.9	1.8	1.6	1.8	1.9
Depreciation Expenses as % of Total Plant	3.1	3.2	3.3	3.5	3.3	3.7	4.2
Depreciation Expenses as % of Depreciable Plant	a	3.3	3.4	3.6	3.5	3.8	4.3
Total Taxes as % of Total Plant	8.4	6.4	6.2	5.4	4.4	1.9	5.2
Total Taxes as % of Net Plant	13.0	10.1	10.1	9.2	7.5	3.2	9.1
Total Taxes as % of Net Income plus Total Taxes	62.7	58.8	67.8	58.4	60.3	a	72.9
Current Federal Income Tax as % of Net Income plus current Federal Income Tax[c]	21.3	41.6	40.2	17.3	9.2	a	36.8
Plant							
Total Plant as % of Total Operating Revenue	99.1	126.1	127.8	145.3	183.2	173.2	166.8
Net Plant as % of Total Operating Revenue	64.2	79.7	79.0	84.4	108.8	107.1	95.1
Depreciation Reserve as % of Total Plant	35.2	36.8	38.2	41.9	40.6	40.5	43.0
Depreciation Reserve as % of Depreciable Plant	35.9	37.8	38.8	43.0	42.7	41.1	43.9
Total Plant per Employee ($000)	294.6	337.9	355.8	417.3	464.5	473.5	489.6
Capitalization							
Long-term Debt as % of Net Plant	52.9	48.3	49.9	49.7	50.8	52.1	45.6
% Total Capitalization Represented by:							
a. Long-term Debt	44.5	43.4	47.4	47.0	47.1	51.9	49.0
b. Preferred Stock	4.2	4.7	4.8	3.5	3.0	3.2	2.8
c. Common Equity	51.3	51.9	47.8	49.5	49.8	48.2	44.9
% Current Year Financing of Construction Expenditures Represented by:							
a. Internal Sources	66.3	67.0	74.9	57.5	56.3	78.2	85.3
b. Equity Issues	0.4	11.1	0.6	7.2	1.4	0.0	0.0
c. Debt Issues	33.3	21.9	24.5	35.3	42.3	21.7	14.7

a. Not available.

b. Reflects pre-federal income tax coverage.

c. Includes "Investment Tax Credit Adjustment."

R–Revised.

ANALYTICAL RATIOS

TABLE 14-5
SELECTED COMPOSITE ANALYTICAL RATIOS
INVESTOR-OWNED GAS UTILITY INDUSTRY
COMBINATION COMPANIES, 1986–1992

	1986	1987	1988	1989	1990	1991[R]	1992
			Gas Operations				
Earnings							
Utility Operating Income as % of Total Plant	7.5	6.8	6.6	6.3	5.5	5.4	5.3
Utility Operating Income as % of Net Plant	10.0	9.3	9.2	9.0	8.1	8.0	8.1
Operating Revenue as % of Total Plant	96.0	84.2	81.8	78.3	70.8	64.7	60.4
Common Dividend Payout Ratio	70.9	89.7	117.7	96.8	155.6	128.9	118.6
Return on Common Equity	12.0	10.1	7.5	8.2	5.2	6.8	7.3
Return on Average Common Equity	c	10.1	c	8.6	c	7.1	c
Return on Net Plant	5.1	4.2	3.1	3.5	2.2	2.9	3.1
Pretax Coverage of:							
Total Interest Expense[a]	3.1	3.1	2.6	2.5	2.1	2.1	2.3
Long-Term Debt Interest Expense[a]	3.4	3.5	3.0	2.8	2.4	2.4	2.6
Allowance for Funds Used During Construction as % of Net Income	20.1	12.6	12.5	11.2	13.9	8.5	7.0
Expenses							
Operating Expenses as % of Operating Revenue	93.1	92.5	92.4	92.4	92.6	92.0	91.5
Maintenance Expenses as % of Total Plant	2.3	2.3	2.3	2.1	2.1	2.3	1.9
Depreciation Expenses as % of Total Plant	3.7	3.7	3.8	3.8	3.7	3.6	3.6
Depreciation Expenses as % of Depreciable Plant	3.9	3.8	4.1	3.9	3.8	3.8	4.0
Total Taxes as % of Total Plant	8.4	7.8	6.8	6.5	5.8	5.5	5.5
Total Taxes as % of Net Plant	11.2	10.6	9.6	9.4	8.5	8.2	8.3
Total Taxes as % of Net Income plus Total Taxes	65.3	68.5	72.5	67.9	75.5	70.5	69.8
Current Federal Income Tax as % of Net Income plus current Federal Income Tax[b]	28.6	37.8	37.2	31.2	48.8	32.0	29.1
Plant							
Total Plant as % of Total Operating Revenue	104.2	118.7	122.2	127.8	141.3	154.3	165.5
Net Plant as % of Total Operating Revenue	77.6	87.2	87.5	88.8	96.6	103.2	109.2
Depreciation Reserve as % of Total Plant	25.5	26.6	28.4	30.5	31.6	33.1	34.0
Depreciation Reserve as % of Depreciable Plant	26.9	27.7	30.0	31.6	32.9	34.7	37.1
Total Plant per Employee ($000)	318.8	342.1	383.0	406.7	435.3	470.4	528.6
			All Operations				
Earnings							
Utility Operating Income as % of Total Plant	7.3	6.5	6.8	6.8	6.7	6.6	6.1
Utility Operating Income as % of Net Plant	9.8	8.8	9.4	9.8	9.4	9.5	8.9
Operating Revenue as % of Total Plant	36.9	34.2	34.6	36.3	37.4	36.8	35.7
Common Dividend Payout Ratio	69.6	110.4	117.6	86.2	87.9	79.6	87.5
Return on Common Equity	12.6	8.3	7.7	9.8	9.3	10.9	10.0
Return on Average Common Equity	c	8.3	7.8	9.8	9.4	11.1	c
Return on Net Plant	5.3	3.4	3.1	4.2	3.9	4.7	4.2
Pretax Coverage of:							
Total Interest Expense[a]	3.2	2.9	2.2	2.5	2.3	2.7	2.7
Long-Term Debt Interest Expense[a]	3.5	3.2	2.4	2.8	2.6	3.1	3.0
Allowance for Funds Used During Construction as % of Net Income	26.6	22.7	18.9	13.6	10.3	6.6	5.3
Expenses							
Operating Expenses as % of Operating Revenue	83.5	83.0	81.8	82.5	82.9	82.8	83.4
Maintenance Expenses as % of Total Plant	2.2	2.2	2.3	2.3	2.5	2.4	2.3
Depreciation Expenses as % of Total Plant	2.7	2.8	3.1	3.6	3.2	3.3	3.4
Depreciation Expenses as % of Depreciable Plant	3.4	3.2	3.3	4.0	3.3	3.4	3.6
Total Taxes as % of Total Plant	6.1	5.4	4.7	4.6	5.2	5.3	5.0
Total Taxes as % of Net Plant	8.1	7.3	6.5	6.6	7.3	7.6	7.3
Total Taxes as % of Net Income plus Total Taxes	57.1	64.5	63.8	54.5	61.9	59.6	60.8
Current Federal Income Tax as % of Net Income plus current Federal Income Tax[b]	25.7	33.4	30.6	24.3	30.0	24.8	25.6
Plant							
Total Plant as % of Total Operating Revenue	270.8	292.7	289.2	275.5	267.0	271.6	280.2
Net Plant as % of Total Operating Revenue	202.3	215.7	207.8	192.0	191.3	187.7	192.0
Depreciation Reserve as % of Total Plant	25.3	26.3	28.1	30.3	32.8	33.8	34.9
Depreciation Reserve as % of Depreciable Plant	32.1	30.4	30.0	33.2	34.1	35.2	36.7
Capitalization							
Long-term Debt as % of Net Plant	44.6	44.8	46.1	48.7	48.1	47.3	46.4
% Total Capitalization Represented by:							
a. Long-term Debt	46.7	47.9	49.0	49.4	49.4	48.8	48.7
b. Preferred Stock	9.1	8.4	8.1	7.5	7.2	7.1	6.8
c. Common Equity	44.2	43.7	42.9	43.1	43.3	44.1	44.5
% Current Year Financing of Construction Expenditures Represented by:							
a. Internal Sources	60.7	72.4	76.1	59.7	59.3	54.9	73.8
b. Equity Issues	6.5	6.4	8.2	4.6	9.4	17.4	3.5
c. Debt Issues	32.8	21.2	15.7	35.7	31.4	27.7	22.7

a. Reflects pre-federal income tax coverage

b. Includes "Investment Tax Credit Adjustment."

c. Not available.

R–Revised.

SECTION 15
CONSTRUCTION EXPENDITURES

	1992	% Change 92/91
Construction Expenditures (Millions)		
Total	$11,068	+22.4
Production & Storage	349	−18.8
Transmission	5,739	+56.9
Underground Storage	252	+11.0
Distribution	3,867	+ 0.6
General	861	− 2.4

CONSTRUCTION EXPENDITURES

TABLE 15-1
GAS UTILITY INDUSTRY CONSTRUCTION EXPENDITURES, BY TYPE OF FACILITY, 1968–1996[a]

(Millions)

Year	Total	Production and Storage	Transmission	Underground Storage	Distribution	General
1968	2,972	259	1,577	88	913	135
1969	2,686	83	1,511	128	863	101
1970	2,507	203	1,019	167	913	205
1971	2,419	340	842	171	888	178
1972	2,822	717	678	177	1,081	169
1973	2,966	771	746	201	1,094	155
1974	2,965	830	632	230	1,097	176
1975	2,466	555	590	276	910	136
1976	2,425	466	531	362	926	140
1977	2,833	620	670	323	1,048	172
1978	3,581	881	935	321	1,228	215
1979	4,366	1,125	1,226	281	1,448	286
1980	5,350	1,150	1,583	396	1,869	352
1981	6,389	1,346	2,352	326	1,955	410
1982	5,939	1,322	1,921	368	1,881	447
1983	4,078	607	1,065	139	1,845	422
1984	4,645	422	1,301	121	2,266	535
1985	5,671	790	1,562	175	2,577	567
1986	5,342	258	1,448	125	2,920	591
1987	5,328	251	1,295	107	3,055	620
1988	6,166	268	1,568	101	3,389	840
1989	7,341	276	2,081	159	3,980	845
1990	7,899	309	2,886	219	3,714	770
1991	9,036	430	3,656	227	3,842	883
1992	11,068	349	5,739	252	3,867	861
1993(forecast)	10,359	358	4,685	368	4,110	838
1994(forecast)	8,200	307	2,696	205	4,265	727
1995(forecast)	7,904	271	3,468	182	3,338	645
1996(forecast	7,688	204	2,596	125	4,125	638

a. For companies not reporting 1995 and 1996 forecasts, data extrapolated from earlier years.

TABLE 14-6

SELECTED ANALYTICAL RATIOS RELATING TO INVESTOR-OWNED GAS UTILITY INDUSTRY OPERATING AND MAINTENANCE EXPENSES, 1980–1992[a]

	Total Operating and Maintenance Expense per Therm of Sales (cents)					Total Operating Revenue per Therm of Sales (cents)				
Type of Activity	1980	1985	1990	1991	1992	1980	1985	1990	1991	1992
Natural Gas Distribution[b]	29.37	46.65	42.22	42.30	42.25	34.82	56.68	54.10	55.07	55.98
Natural Gas Transmission	22.12	35.62	36.33	38.54	37.82	25.23	40.57	46.33	49.55	51.14

	Transmission and Distribution Expense per Mile of Pipe (dollars)					Total Cost of Purchases as Percent of Total Operating and Maintenance Expense (%)				
Type of Activity	1980	1985	1990	1991	1992	1980	1985	1990	1991	1992
Natural Gas Distribution[b]	2,666.68	3,396.86	4,066.01	4,105.32	3,986.47	85.80	84.21	74.11	71.82	72.08
Natural Gas Transmission	11,510.06	13,899.46	11,483.00	12,220.84	12,187.50	90.66	87.12	69.94	64.72	63.01

	Customer Accounts Expense Per Customer (dollars)					Total Payroll as Percent of Total Operating and Maintenance Expense (%)				
Type of Activity	1980	1985	1990	1991	1992	1980	1985	1990	1991	1992
Natural Gas Distribution[b]	22.68	33.33	33.68	34.64	34.77	9.05	8.92	14.10	15.09	14.73
Natural Gas Transmission						2.97	4.10	8.32	9.75	10.07

	Gross Sales Expense per Customer (dollars)				
Type of Activity	1980	1985	1990	1991	1992
Straight Natural Gas Distribution	2.94	4.95	5.19	5.12	5.10
Combination Natural Gas Distribution	0.60	1.07	2.37	2.60	3.31

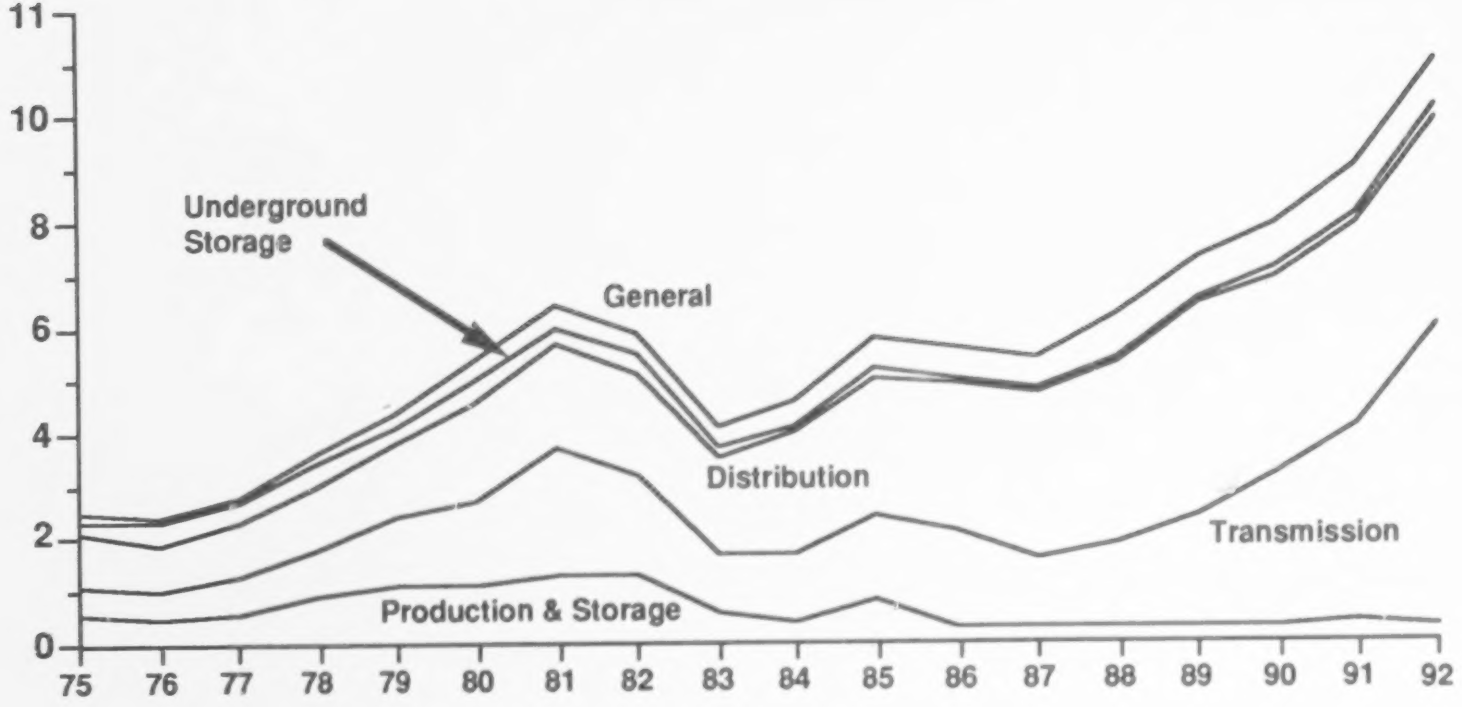
[a] Integrated companies excluded.

[b] Includes both straight gas and combination companies.

CHART 15-1

GAS UTILITY INDUSTRY CONSTRUCTION EXPENDITURES

(BILLIONS OF DOLLARS)



REFERENCE: TABLE 15-1

TABLE 15-2
GAS UTILITY INDUSTRY CONSTRUCTION EXPENDITURES, BY TYPE OF FACILITY, 1986–1992

	1986	1987	1988	1989	1990	1991	1992
Production and Storage	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
SNG Plant	0.5	0.1	a	0.0	0.2	a	1.2
LNG Plant	0.6	3.3	0.3	2.4	1.6	1.2	0.5
Propane Plant	1.8	2.0	1.5	2.7	4.8	4.0	4.2
Exploration and Drilling	32.1	6.2	41.0	6.2	8.7	0.1	0.0
Other[b]	51.3	70.2	38.5	71.7	68.8	72.1	79.6
LNG Storage	10.0	14.4	15.1	6.8	11.9	15.7	10.5
Other Storage	3.7	3.8	3.6	10.2	3.9	7.0	4.0
LNG Ships	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Transmission	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
New and Replacement Pipe	76.9	81.9	75.8	79.0	79.1	72.1	76.0
Compressor Stations	17.4	13.3	20.0	12.2	16.5	19.7	14.5
Other	5.7	4.8	4.2	8.8	4.4	8.1	9.4
Distribution	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
New and Replacement Pipe	92.4	91.1	90.0	89.1	91.2	90.3	88.9
Compressor Stations	a	0.3	0.5	0.1	0.2	0.1	0.2
Other	7.6	8.6	9.5	10.7	8.6	9.6	10.9

a. Less than 0.1 percent.

b. Includes gathering.

SECTION 16
PERSONNEL DATA

	1992	% Change 92/91
Gas Utility Employees		
(Thousands)		
Total	208.0	+ 0.2
Distribution	66.0	+ 5.3
Transmission	45.5	+20.1
Integrated	35.0	−13.3
Combination	49.6	− 0.1
Municipals	11.9	− 2.9

PERSONNEL DATA

TABLE 16-1
GAS UTILITY INDUSTRY EMPLOYEES AND PAYROLL
1968–1992

Year	Average Number of Employees (Thousands)	Total Payroll (Thousands)	Average Wage per Employee
1968	208.6	$1,759,784	$ 8,440
1969	210.2	1,890,490	8,990
1970	211.7	2,021,197	9,550
1971	213.7	2,142,892	10,028
1972	215.4	2,321,932	10,780
1973	215.2	2,449,075	11,381
1974	213.4	2,606,903	12,216
1975	207.6	2,817,150	13,570
1976	205.1	3,044,605	14,844
1977	208.8	3,371,856	16,149
1978	209.8	3,647,057	17,383
1979	214.6	4,134,270	19,265
1980	215.4	4,612,791	21,415
1981	220.9	5,313,445	24,057
1982	227.8	5,998,666	26,342
1983	226.3	6,365,305	28,128
1984	221.2	6,602,168	29,849
1985	216.6	6,959,057	32,132
1986	214.1	7,072,535	33,019
1987	208.3	7,092,959	34,051
1988	203.3	7,214,378	35,486
1989	204.5	7,476,192	36,558
1990	204.2	7,768,719	38,045
1991R	202.8	8,163,947	40,256
1992	208.0	8,418,340	40,475

R–Revised.

TABLE 16-2
GAS UTILITY INDUSTRY EMPLOYEES AND PAYROLL BY TYPE OF PAYROLL AND TYPE OF COMPANY, 1975–1992

(Thousands)

	1975	1980	1985	1989	1990	1991[R]	1992
Total							
Employees	207.6	215.4	216.6	204.5	204.2	202.8	208.0
Payroll—Total	$2,817,150	$4,612,791	$6,959,057	$7,476,192	$7,768,719	$8,163,947	$8,418,340
Operating	2,292,448	3,652,941	5,515,089	6,064,600	6,253,918	6,515,886	6,790,412
Construction	380,835	627,706	962,353	1,076,712	1,161,086	1,259,564	1,311,380
Miscellaneous	143,867	332,144	481,615	334,880	353,715	388,498	316,549
Investor Owned—Total							
Employees	196.3	202.7	204.5	192.3	192.1	190.6	196.1
Payroll—Total	$2,675,092	$4,379,653	$6,629,132	$7,082,533	$7,351,782	$7,722,635	$7,953,858
Operating	2,184,446	3,463,437	5,227,943	5,740,445	5,914,059	6,159,014	6,413,458
Construction	357,221	594,326	993,035	1,026,387	1,105,323	1,198,447	1,247,703
Miscellaneous	133,425	321,890	468,154	315,701	332,400	365,174	292,697
Distribution							
Employees	51.3	52.1	61.8	64.1	64.7	62.7	66.0
Payroll—Total	$697,552	$1,040,436	$1,736,309	$2,225,857	$2,355,933	$2,406,819	$2,641,125
Operating	567,947	831,076	1,407,131	1,802,679	1,894,124	1,933,987	2,128,804
Construction	98,257	152,964	233,723	305,957	330,009	346,326	375,910
Miscellaneous	31,348	56,396	95,455	117,221	131,800	126,506	136,411
Transmission							
Employees	37.2	45.2	46.3	37.1	37.4	37.9	45.5
Payroll—Total	$574,275	$1,178,706	$1,786,918	$1,591,434	$1,622,839	$1,740,532	$1,800,889
Operating	470,418	873,199	1,341,552	1,354,488	1,379,395	1,441,726	1,562,330
Construction	53,832	108,974	156,730	114,793	136,373	165,152	168,561
Miscellaneous	50,025	196,533	288,636	122,153	107,071	133,655	69,998
Integrated							
Employees	55.4	53.2	43.3	40.2	39.9	40.4	35.0
Payroll—Total	$676,967	$1,061,520	$1,355,107	$1,299,892	$1,353,097	$1,455,926	$1,307,482
Operating	548,291	873,837	1,158,017	1,105,109	1,132,853	1,226,087	1,109,089
Construction	91,439	138,062	146,519	173,872	185,542	188,612	170,606
Miscellaneous	37,237	49,621	50,571	20,911	34,702	41,227	27,787
Combination							
Employees	52.4	52.2	53.1	50.9	50.1	49.6	49.6
Payroll—Total	$726,298	$1,098,991	$1,750,798	$1,980,657	$2,019,913	$2,119,358	$2,204,362
Operating	597,790	885,325	1,321,243	1,491,535	1,507,687	1,557,214	1,613,235
Construction	113,693	194,326	396,063	433,619	453,399	498,357	532,626
Miscellaneous	14,815	19,340	22,660	55,502	58,827	63,786	58,501

R-Revised.

Note: Data by company type not directly comparable from year to year due to acquisitions and mergers. See page ix.

TABLE 16-3
EMPLOYEE ACCIDENT INCIDENT AND SEVERITY RATES OF SELECTED INDUSTRIES, 1991

	Rate	
	Incident	Severity
Gas Utilities[b]	**1.7**	**17.6**
All Industries	**1.8**	**26.1**
Agricultural Chemicals	0.5	26.0
Aircraft	2.3	33.9
Air Transportation	3.3	11.8
Coal	1.2	27.5
Cement	2.7	27.8
Chemical	0.5	24.0
Communications	1.0	11.0
Construction	2.4	25.8
Electric, Electronic Equipment	3.9	8.5
Electric Service	1.0	20.0
Fabricated Metal Products	2.7	23.7
Food	3.5	22.6
Furniture and Fixtures	1.3	10.6
General Government	5.5	16.5
Iron and Steel Foundries	3.5	20.6
Lumber and Wood Products	3.0	29.3
Industrial Machinery	1.7	21.2
Meat Products	4.4	19.3
Metal Mining	1.1	31.8
Motor Vehicles	4.6	27.0
Nonferrous Rolling, Drawing	1.3	31.5
Nonmetallic Minerals, Except Fuels	0.8	65.0
Oil and Gas Extraction	0.8	37.5
Paper	1.7	30.0
Petroleum and Coal Products	0.6	31.7
Pipeline Transportation	1.0	28.0
Primary Nonferrous Metals	2.5	28.4
Printing and Publishing	2.8	16.8
Railroad Transportation	3.2	76.9
Rubber and Plastics	2.2	25.5
Services	0.9	16.7
Ship and Boat Building	5.1	7.3
Stone, Clay and Glass	2.3	37.0
Textile	0.4	35.0
Local, Suburban Transportation	8.7	21.4
Trucking and Warehousing	4.7	33.6
Water Transportation	2.7	38.5
Wholesale and Retail Trade	2.1	25.7

a. Incident rate is the number of disabling injuries per 100 full-time employees. Severity rate is average lost workdays per injury.

b. Gas figures derived from National Safety Council data.

Source: National Safety Council, *Accident Facts*, 1992.

TABLE 16-4
DEATH RATES OF WORKERS, BY MAJOR INDUSTRIES, 1991

	Deaths	
	Total	Per 100,000 Workers
All Industries	**9,900**	9
Agriculture	1,400	44
Construction	1,800	31
Government	1,600	9
Manufacturing	800	4
Mining, Quarrying, Oil and Gas Wells	300	43
Service	1,700	4
Trade	1,000	4
Transportation and Public Utilities	1,300	22
Gas[a]	3	2.15

a. Included in Transportation and Public Utilities. Data derived from A.G.A. *Report of Occupational Injuries and Illnesses in the Gas Utility and Transmission Industry in the United States*, and does not represent total industry.

Source: National Safety Council; *Accident Facts*, 1992: gas figures derived from A.G.A. data.

APPENDIX A
GLOSSARY

(This is an abbreviated list of gas utility industry definitions. A complete list is contained in the *Glossary for the Gas Industry*).

Accident Frequency Rate: See Injury Frequency Rate, Disabling.

Accident Incident Rate: See Injury Incident Rate.

Accident Severity Rate: See Injury Severity Rate, Disabling.

Additions (To Utility Plant):

Gross Additions: Expenditures for construction (including Allowance for Funds Used During Construction) and/or utility plant purchased and acquired.

Net Additions: Gross additions less retirements and adjustments of utility plant. It is the net change in utility plant between two dates.

Anthracite Coal: A hard, black, lustrous coal that burns efficiently, containing a higher percentage of fixed carbon and a low percentage of volatile matter differing from bituminous, and generally having a heating value of 11,000-12,000 Btu/lb. Commonly referred to as hard coal; it is mined in the U.S., mainly in eastern Pennsylvania, although in small quantities in other states. Most of the anthracite is used as a fuel in household heating systems. When anthracite burns, it produces almost no smoke.

Associated Natural Gas: See Gas, Natural.

Associated Number of Customers: See Customers, Average Number of.

Average Revenue Per Unit of Gas Sales (By Class of Service): Revenue from the sale of gas to a class of service, exclusive of forfeited discounts and penalties, divided by the corresponding number of units sold. Units may be therms, Btu's, or cubic feet.

Barrel (Oil): A volumetric unit of measurement equivalent to 42 U.S. standard gallons, 9,702 cubic inches, 5.6146 cubic feet, 34.9722 Canadian Imperial gallons, 158.99 liters, or .15899 cubic meters. It is the unit of measurement commonly used to measure oil production and oil reserves within the U.S.

Bcf: 1,000,000,000 cubic feet; Billion cubic feet.

Bituminous Coal: Ranking of soft coal generally having a heating value of 11,000–13,000 Btu/lb., high in volatile matter and ash.

Blue Gas: See Water Gas.

Boiler Fuel Gas: Natural gas used as a fuel for the generation of steam (or hot water).

Bottled Gas: In the industry, liquefied petroleum gas contained under moderate pressure in cylinders, sometimes referred to as bottles. Usually propane and/or butane.

British Thermal Unit (Btu): The quantity of heat necessary to raise the temperature of one pound of water one degree Fahrenheit from 58.5 to 59.5 degrees Fahrenheit under standard pressure of 30 inches of mercury at or near its point of maximum density. One Btu equals 252 calories (gram), 778 foot-pounds, 1,055 joules and 0.293 watt hours.

By-Products (Residuals): Secondary products which are obtained from the processing of a raw material and have commercial value. They may be the residues of the gas production process, such as coke, tar, and ammonia. or they may be the result of further processing of such residues, such as ammonium sulphate.

Capacity, Effective: The maximum load which a machine, apparatus, device, plant or system is capable of carrying under existing service conditions.

Carbon Black: Almost pure amorphous carbon consisting of extremely fine particles, usually produced from gaseous or liquid hydrocarbons by controlled combustion with a restricted air supply or by thermal decomposition.

Casinghead Gas: Unprocessed natural gas containing natural gasoline and other liquid hydrocarbon vapors produced from oil well. Frequently called WET GAS, ASSOCIATED GAS (but not all wet gas or associated gas is casinghead gas), and in the past, BRADENHEAD GAS. Technically, the term should apply only to gas produced from the casing of an oil well, and not from the tubing, but it is often applied to any gas produced in association with oil.

City Gate (Town Border Station): See Gate Station.

Class of Service: Defines the type of customer. The common classes of service applied to ultimate consumers, and considerably more completely described in the A.G.A. publication "Definitions of a Gas Customer and Classes of Service for Industry Reporting Purposes" are:

1. **Residential Service**
   Covers service to customers for domestic purposes (single, multifamily or mobile homes, etc.). In residential service, the number of housing units within a structure determines the customer classification.
2. **Commercial Service**
   Covers service to customers engaged in wholesale or retail trade, agriculture, communications, finance, fisheries, forestry, government, insurance, real estate, transportation, etc., and to customers not directly involved in other classes of service.
3. **Industrial Service**
   Covers service to customers engaged primarily in a process which either involves the extraction of raw materials from the earth, or a change of raw or unfinished materials into another form or product.
4. **Other Services**
   Service to municipalities or divisions (agencies) of State or Federal Governments under special contracts or agreements or service classifications, which are applicable only to public authorities using gas for general or institutional purposes. (Exclude sales properly included under items 2 or 3 above, such as manufacturing arsenals or publicly-owned power systems).
5. **Sales for Resale** (Uniform System of Accounts, 483)
   Service to other utility companies, governmental agencies (municipal, county, state or federal), rural cooperatives, etc., for distribution and resale to ultimate customers. Service to other utilities for use by them and not for distribution and resale, is to be classified as residential, commercial, or industrial, depending upon the primary business or economic activity.

APPENDIX A

Coal Gas: Manufactured gas made by distillation or carbonization of coal in a closed coal gas retort, coke oven, or other vessel.

Combination Utility: Utility which supplies both gas and some other utility service (electricity, water, etc.). For purposes of A.G.A. statistics, a combination utility derives at least 5 percent but less than 95 percent of its total sales revenues from gas operations. See Appendix C for a partial list of combination companies.

Commercial Service: See Class of Service.

Communities (Served): A community is a contiguous built-up area, incorporated or unincorporated, commonly recognized as a separate entity. Any incorporated area and its adjacent built- up unincorporated area may be counted as one community.

Compressor Horsepower: See Horsepower, Compressor.

Compressor Station: Any permanent combination of facilities which supplies the energy to move gas at increased pressure from fields, in transmission lines or into storage. For reporting to A.G.A. include field (other than temporary) line, and storage compressor stations of producing and transmission companies; distribution companies should include underground storage compressor stations and stations used for transporting gas between local distribution systems but not booster or pumping stations used within a local distribution system.

Condensate: The liquid resulting when a vapor is subjected to cooling and pressure reduction. Also, liquid hydrocarbons condensed from gas and oil wells. Compare Liquids, Natural Gas.

Consumption: The quantity of natural gas used by end users, pipeline fuel and lease and plant fuel.

Construction Expenditures: Cost of construction, including work-in-progress (CWIP), overhead or contributions in aid of construction and allowances for funds used during construction (AFUDC), for additions to, renewals and replacements of plant facilities, but excluding the purchase cost of an acquired operating unit or system of utility plant, accounting transfers and adjustments to utility plant, and cost to remove plant facilities from service.

Conversion to Natural Gas: Changing the gas service to ultimate customers from a fuel other than natural gas to natural gas, including adjustment of consumers' appliances to perform satisfactorily with natural gas. Natural gas does not necessarily mean straight natural gas; stabilizing the heat content of the sendout gas by diluent gases or enriching gases is not considered to change the basic character of natural gas. For the purpose of uniform reporting a company should be considered a natural gas company when 95 percent of the system has been converted.

Cubic Foot: The most common unit of measurement of gas volume. It is the amount of gas required to fill a volume of one cubic foot under stated conditions of temperature, pressure, and water vapor.

Current Gas: See Storage, Underground.

Cushion Gas: The gas required in a reservoir, used for storage of natural gas, so that reservoir pressure is such that the storage gas may be recovered.

CHART 16-1

GAS UTILITY INDUSTRY PAYROLL, EMPLOYEES AND AVERAGE WAGE

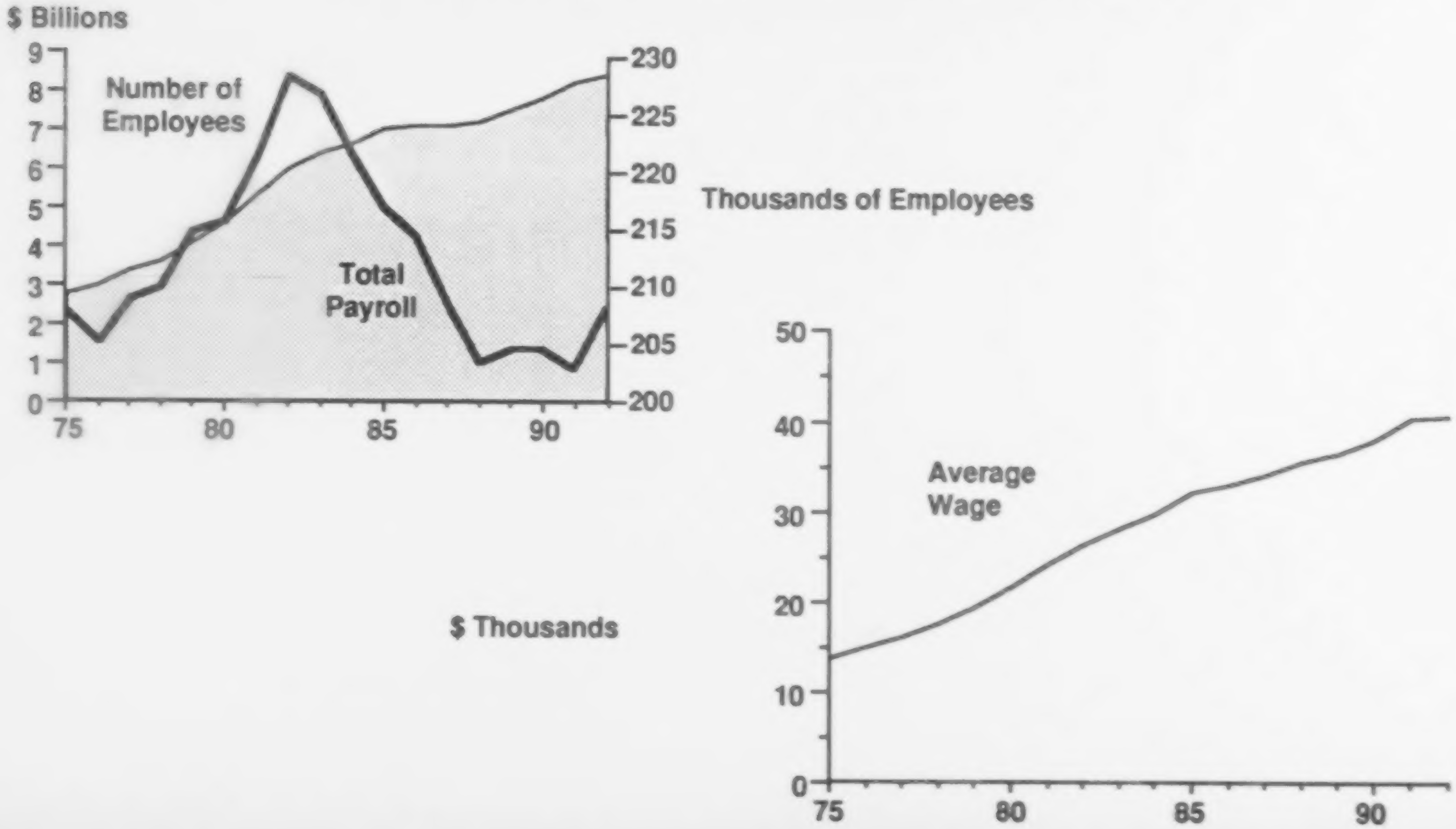


TABLE 16-5
EMPLOYEE DISABLING INJURY RATES, BY TYPE OF GAS UTILITY, 1972-1992

Z16.1 DATA

	All Reporting Gas Utilities				Natural Gas Distribution and Integrated Companies		Natural Gas Transmission Companies		Natural Gas Combination Companies[a]	
	Reporting Companies		Rate[b]		Rate		Rate		Rate	
Year	Number	Average Employees	Frequency[c]	Severity[d]	Frequency[c]	Severity[d]	Frequency[c]	Severity[d]	Frequency[c]	Severity[d]
1972	736	205,371	8.38	535	8.98	495	5.88	762	e	e
1973	708	207,423	8.18	547	8.77[f]	373[f]	5.67	1,287	e	e
1974	644	208,283	9.08	357	9.75[g]	362[g]	6.12	333	e	e
1975	515	193,957	9.27	570	9.99[g]	518[g]	6.37	785	e	e
1976	407	153,538	11.17	365	12.87[g]	403[g]	5.31	236	e	e

OSHA DATA

	All Reporting Gas Utilities				Natural Gas Distribution and Integrated Companies		Natural Gas Transmission Companies		Natural Gas Combination Companies	
	Reporting Companies		Rate		Rate		Rate		Rate	
Year	Number	Average Employees	Incident[h]	Severity[i]	Incident[h]	Severity[i]	Incident[h]	Severity[i]	Incident[h]	Severity[i]
1977	433	243,773	2.46	18.01	3.31	15.86	1.09	20.63	2.00	20.54
1978	423	236,661	2.46	17.11	3.41	14.86	1.10	22.51	2.10	18.90
1979	443	256,797	2.52	16.76	3.57	15.01	1.16	24.71	1.97	17.81
1980	453	262,173	2.62	18.20	3.45	14.28	1.15	32.17	2.26	21.34
1981	437	278,402	2.52	25.09	3.43	17.08	1.09	26.34	2.17	37.53
1982	424	275,725	2.33	18.36	3.39	13.63	1.15	23.10	1.90	24.30
1983	431	272,236	2.33	18.02	3.44	13.91	1.09	20.55	1.82	24.66
1984	415	254,765	2.52	16.01	3.67	13.20	1.02	19.60	1.91	21.11
1985	439	229,658	2.36	17.12	3.64	14.28	1.07	47.02	1.13	15.14
1986	419	224,696	2.37	17.68	3.49	16.06	0.95	38.21	1.58	15.56
1987	331	187,997	2.30	18.84	3.08	16.86	1.17	39.91	1.59	16.95
1988	345	198,868	2.07	17.62	3.02	16.84	0.86	23.45	1.21	18.64
1989	375	189,976	2.30	16.85	3.15	15.75	1.06	24.26	1.68	17.38
1990	370	195,251	2.10	18.17	2.96	16.01	0.89	29.21	1.50	20.69
1991	364	239,141	2.06	22.18	2.99	17.63	1.04	28.15	1.45	30.52
1992	363	223,749	2.09	20.00	3.00	16.97	0.76	22.37	1.54	27.07

a. Included in "Natural Gas Distribution" and "Integrated Companies" under Z16.1 data.
b. Includes "Manufactured and Mixed Gas" and "Liquefied Petroleum Gas."
c. Frequency Rate is number of disabling injuries per million man-hours worked for each injury resulting in a minimum of one day's loss of time.
d. Severity Rate is number of days lost due to disabling injuries, per million man-hours worked.
e. Not available under Z16.1 data.
f. Includes "Manufactured and Mixed Gas."
g. Includes "Manufactured and Mixed Gas" and "Liquefied Petroleum Gas."
h. Incident Rate is total injuries per 100 full-time employees.
i. Severity Rate is average lost workdays per injury.

Source: 1992 Natural Gas Utility and Transmission Industry, Occupational Injury and Illness Statistics.

Note: Companies are now required to report under the Occupational Safety and Health Act (OSHA) instead of ANST Standard Z16.1.

Customer: An individual, firm or organization which purchases service at one location under one rate classification, contract, or rate schedule. If service is supplied at more than one location or under more than one rate schedule, each location and rate schedule shall be counted as a separate customer unless the consumption at the several locations is combined before billing and billed on one rate schedule. See class of service.

Customers, Average Number of: The average number of customers is determined by summing the customers for each of the periods involved and dividing by the number of periods. See Customer.

Customers, End of Year: The number of customers at December (or the last month of a fiscal year) including all billing cycles. See Customers, Average Number of.

Degree Day, Heating: A measure of the coldness of the weather experienced, based on the extent to which the daily mean temperature falls below a reference temperature, usually 65°F. For example, on a day when the mean outdoor dry-bulb temperature is 35°F., there would be 30 degree days experienced. A daily mean temperature usually represents the sum of the high and low readings divided by two.

Degree Day Normal: The simple arithmetic average of monthly or annual degree days (usually for a 30-year period). May be a simple degree day normal or population-weighted degree day normal.

Deliveries to End-Users: The addition of utility sales and gas transported to end users.

Demand: The rate at which gas is delivered to or by a system, part of a system, or a piece of equipment, expressed in cubic feet or therms or multiples thereof, for a designated period of time called the demand interval. Compare Load.

Design Day: A 24-hour period of demand which is used as a basis for planning gas capacity requirements.

Design Day Availability: The amount of each type of gas arranged to be available on the design day and the maximum combination of such supplies. (In the case of purchased natural gas, the maximum day allocation, maximum day contract quantity, or FERC authorization).

Design Day Temperature: The mean temperature assumed for the Design Day.

Dissolved Natural Gas: See Gas, Natural.

Distribution Company, Gas: Company which obtains the major portion of its gas operating revenues from the operation of a retail gas distribution system, and which operates no transmission system other than incidental connections within its own system or to the system of another company. For purposes of A.G.A. statistics, a distribution company obtains at least 90 percent of its gas operating revenues from sales to ultimate customers *and* classifies at least 90 percent of mains (other than service pipe) as distribution. Compare Integrated Company, Gas; Transmission Company, Gas. See Appendix C for a partial list of Distribution Companies.

Distribution Mains: See System Type.

APPENDIX A

Distribution System, Gas: See System Type.

Dry Natural Gas: See Gas, Natural.

Enriching: Increasing the heat content of a gas by mixing with it a gas of higher Btu content.

Exchange Gas: Gas that is received from (or delivered to) another party in exchange for gas delivered to (or received from) such other party.

Extraneous Gas: See Storage, Underground.

Field Pipeline: See System Type.

Firm Service: Service offered to customers (regardless of Class of Services) under schedules or contracts which anticipate no interruptions. The period of service may be for only a specified part of the year as in Off-Peak Service. Certain firm service contracts may contain clauses which permit unexpected interruption in case the supply to residential customers is threatened during an emergency. Compare Interruptible Service; and Off-Peak Service.

Foreign Gas: See Storage, Underground.

Gallon: A unit of liquid measure. The U.S. gallon contains 231 cubic inches or 8.3359 pounds avoirdupois of distilled water at its maximum density and with the barometer at 30 inches.

Gas, Dry: See Gas, Natural.

Gas, Liquefied Petroleum (LPG): A gas containing certain specific hydrocarbons which are gaseous under normal atmospheric conditions but can be liquefied under moderate pressure at normal temperatures. Propane and butane are the principal examples.

Gas, Manufactured: A gas obtained by destructive distillation of coal, or by the thermal decomposition of oil, or by the reaction of steam passing through a bed of heated coal or coke, or catalyst beds. Examples are coal gases, coke oven gases, producer gas, blast furnace gas, blue (water) gas, and carbureted water gas. Btu content varies widely.

Gas, Natural: A naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in porous geologic formations beneath the earth's surface, often in association with petroleum. The principal constituent is methane.

Associated: Free natural gas in immediate contact, but not in solution with crude oil in the reservoir.

Dissolved: Natural gas in solution in crude oil in the reservoir.

Dry: Gas whose water content has been reduced by a dehydration process. Gas containing little or no hydrocarbons commercially recoverable as liquid product. Specified small quantities of liquids are permitted by varying statutory definition in certain states.

Liquefied (LNG): Natural gas which has been liquefied by reducing its temperature to minus 260°F at atmospheric pressure. It remains a liquid at −116°F and 673 psig. In volume it occupies 1/600 of that of the vapor.

Liquids: Those liquid hydrocarbon mixtures which are gaseous at reservoir temperatures and pressures but are recoverable by condensation or absorption. Natural gasoline and liquefied petroleum gases fall in this category.

Non-Associated: Free natural gas not in contact with, nor dissolved in, crude oil in the reservoir.

Sour: Gas found in its natural state, containing such amount of compounds of sulphur as to make it impractical to use, without purifying, because of its corrosive effect on piping and equipment.

Substitute: A gas manufactured from carbonaceous material whose characteristics are substantially interchangeable with natural gas. The resultant gas is composed primarily of methane. At this writing, SNG feedstocks are the light hydrocarbons, propane, butane and the naphthas. Development is underway of processes for production from heavier feedstocks, coal, peat and solid wastes.

Sweet: Gas found in its natural state, containing such small amount of compounds of sulphur that it can be used without purifying, with no deleterious effect on piping and equipment.

Wet: Wet natural gas is unprocessed natural gas or partially processed natural gas produced from strata containing condensable hydrocarbons. The term is subject to varying legal definitions as specified by certain state statutes. (The usual maximum allowable is 7 lbs./MMcf water content and .02 gallons/Mcf of Natural Gasoline.)

Gas, Oil: A gas resulting from the thermal decomposition of petroleum oils, composed mainly of volatile hydrocarbons and hydrogen. The true heating value of oil gas may vary between 800 and 1600 Btu per cubic foot depending on the operating conditions and feedstock properties.

Gas, Substitute Natural (SNG): See Gas, Natural.

Gas Transported for Others: That volume of gas owned by another company received into and transported through any part of the transmission system under a transportation tariff.

Gate Station: Generally, a location at which gas changes ownership, from one party to another, neither of which is the ultimate consumer. It should be noted, however, that the gas may change from one system to another at this point without changing ownership. Also referred to as city gate station, town border station, or delivery point.

Gathering Pipeline: See System Type.

Heating Value: The amount of heat produced by the complete combustion of a unit quantity of fuel. The gross or higher heating value is that which is obtained when all of the products of combustion are cooled to the temperature existing before combustion, the water vapor formed during combustion is condensed, and all the necessary corrections have been made. The net or lower heating value is obtained by subtracting the latent heat of vaporization of the water vapor formed by the combustion of the hydrogen in the fuel, from the gross or higher heating value.

Holder, Gas: A gas-tight receptacle or container in which gas is stored for future use. (1) at approximately constant pressure (low pressure containers) in which case the volume of the container changes; and (2) in containers of constant volume (usually high pressure containers) in which case the quantity of gas stored varies with the pressure.

Holding Company: A gas holding company is a corporation that is formed for the purpose of owning stock in other gas companies.

Horsepower, Compressor: The horsepower rating on the nameplate.

Horsepower, (HP): A unit of power; equivalent to 33,000 foot-pounds per minute, or 550 foot-pounds per second (mechanical horsepower), or 0.746 kilowatts.

Hydrocarbon: A chemical compound composed solely of hydrogen and carbon. The compounds having a small number of carbon and hydrogen atoms in their molecule are usually gaseous; those with a larger number of atoms are liquid, and the compounds with the largest number of atoms are solid.

Industrial Service: See Class of Service.

Injury Frequency Rate, Disabling: Number of disabling injuries per million man-hours worked. Such injuries include disabilities and fatalities arising out of and occurring during the course of employment. A disabling injury is one which renders the employee unable to return to work on one or more days after the injury.

Injury Incident Rate: Number of injuries per 100 full-time employees.

Injury Severity Rate, Disabling: Number of days lost due to disabling per million manhours worked, including appropriate time charges according to a predetermined schedule for permanent disability cases and/or fatalities. Subsequent to 1976, severity rate is average lost workdays per injury.

Integrated Company, Gas: A company which obtains a significant portion of its gas operating revenues from the operations of both a retail gas distribution system and gas transmission system. For purposes of A.G.A. statistics, an integrated company obtains less than 90 percent but more than 10 percent of its gas operating revenues from either its retail or transmission operations or does not meet the classification of mains established for distribution or transmission companies. Compare Distribution Company, Gas; Transmission Company, Gas. See Appendix C for a partial list of Integrated Companies.

Interruptible Service: Low priority service offered to customers under schedules or contracts which anticipate and permit interruption on short notice, generally in peak-load seasons, by reason of the claim of firm service customers and higher priority users. Gas is available at any time of the year if the supply is sufficient and the supply system is adequate.

Line Pack, Gas Delivered from: That volume of gas delivered to the markets supplied by the net change in pressure in the regular system of mains, transmission and/or distribution. For example, the change in the content of a pipeline brought about by the deviation from steady flow condition.

Liquefied Natural Gas (LNG): See Gas, Natural.

Liquefied Petroleum Gas (LPG): See Gas, Liquefied Petroleum.

Load: The amount of gas delivered or required at any specified point or points on a system; load originates primarily at the gas consuming equipment of the customers. Also, to load a pressure regulator is to set the regulator to maintain a given pressure as the rate of gas flow through the regulator varies. Compare Demand.

Local Storage: See Storage, Local.

Mcf: The quantity of natural gas occupying a volume of one thousand (1,000) cubic feet at a temperature of sixty degrees Fahrenheit (60°F) and at a pressure of fourteen and seventy-three hundredths pounds per square inch absolute (14.73 psia).

MMBtu: A thermal unit of energy equal to 1,000,000 Btu, that is equivalent of 1,000 cubic feet of gas having a heat content of 1,000 Btu per cubic foot, as provided by contract measurement terms.

MMcf: 1,000,000 cubic feet; Million cubic feet; see Cubic Foot.

Main: A distribution line that serves as a common source of supply for more than one gas service line.

Distribution Mains: See System Type.

Field and Gathering Pipeline: See System Type.

Transmission Pipeline: See System Type.

Manufactured Gas: See Gas, Manufactured.

Marketable Natural Gas: Raw gas from which certain hydrocarbons and non-hydrocarbon compounds have been removed by processing. Marketable natural gas is often referred to as pipeline gas, residue gas, or sales gas.

Maximum Day:

Allocation: See Design Day Availability.

Sendout: See Sendout, Maximum Day.

Minimum Day: See Sendout, Minimum Day.

Naphtha: A loosely defined petroleum fraction containing primary aliphatic (linear) hydrocarbons with boiling points ranging from 125° to 240°C. It is thus intermediate between gasoline and kerosene, and contains components of both. Its principal uses are in solvents and paint thinners and as a raw material for the production of organic chemicals, but it has been used as a raw material for the production of synthetic natural gas.

Native Base Gas: See Storage, Underground.

Natural Gas: See Gas, Natural.

Natural Gas, Associated: See Gas, Natural.

Natural Gas, Dissolved: See Gas, Natural.

Natural Gas, Dry: See Gas, Natural.

Natural Gas, Liquefied: See Gas, Natural.

APPENDIX A

Natural Gas Liquids: See Gas, Natural.

Natural Gas, Non-Associated: See Gas, Natural.

Natural Gas Reserves: See Reserves.

Natural Gas, Sour: See Gas, Natural.

Natural Gas, Sweet: See Gas, Natural.

Natural Gas, Wet: See Gas, Natural.

Natural Gasoline: Liquid removed from natural gas by absorption or refrigeration and containing hydrocarbons heavier than butane.

Off-Peak Service: Service made available on special schedules or contracts but only for a specified part of the year during the off-peak season. Compare Interruptible Service.

Oil Gas: See Gas, Oil.

Oil, Heavy: Heavy, thick and viscous oils. Usually refinery residuals commonly specified as grades 5 and 6.

Oil, Light: Generally, all oils lighter than residual fuel oils No. 5 and No. 6. Oils that have a low specific gravity, usually products of controlled distillation of crude oil but also including by- product benzol and toluol.

Peak Day: The one day (24 hours) of maximum system deliveries of gas during a year. Peak day data are used to, among other things, determine the allocation of certain costs between classes of service. See Design Day.

Peak Shaving: The use of fuels and equipment to generate or manufacture gas to supplement the normal supply of pipeline gas during periods of extremely high demand. This method prevents the expensive alternative of expanding pipeline facilities.

Pipeline: All parts of those physical facilities through which gas is moved in transportation, including pipe, valves and other appurtenance attached to pipe, compressor units, metering stations, regulator stations, delivery stations, holders and fabricated assemblies. See System Type.

Pressure, Absolute (PSIA): Pressure in excess of a perfect vacuum. Absolute pressure is obtained by algebraically adding guage pressure to atmospheric pressure. Pressures reported in "atmospheres" are understood to be absolute. Absolute pressure must be used in equations of state and in all gas-law calculations. Guage pressures below atmospheric pressure are called vacuum.

Pressure, Gauge (psig): Pounds per square inch above atmospheric pressure.

Producer Gas (Also, Manufactured Gas): A combustible gas made in a furnace or apparatus by circulating air or a mixture of air and steam through a layer of incandescent material consisting chiefly of carbon monoxide, hydrogen and nitrogen.

Propane (C_3H_8): A gas, the molecule of which is composed of three carbon and eight hydrogen atoms. Propane is present in most natural gas and is the first product refined from crude petroleum. It has many industrial uses and may be used for heating and lighting. Contains approximately 2,500 Btu per cubic foot.

Recoverable Natural Gas Reserves: See Reserves, Estimated Proved Natural Gas Reserves.

Refinery Gas: See Gas, Oil.

Reforming: A chemical process using heat in presence of a catalyst to break down a substance into desired components, such as in the reforming of natural gas or light oils into lower Btu fuel gas.

Repressuring: Forcing gas, under pressure, into the oil reservoir in an attempt to increase the recovery of crude oil; also done with water.

Resale Service: See Class of Service, Sales for Resale.

Reserves, Energy: Refers to the bank of natural resources, such as natural gas, natural gas liquids, petroleum, coal, lignite, and energy available from water power, and solar and geothermal energy.

Estimated Potential Natural Gas Reserves: Refers to an estimate of the remaining natural gas in a specified area which are judged to be recoverable.

Estimated Proved Natural Gas Reserves: An estimated quantity of natural gas which analysis of geologic and engineering data demonstrate with reasonable certainty to be recoverable in the future from known oil and gas reservoirs, under anticipated economic and current operating conditions. Reservoirs that have demonstrated the ability to produce by either actual production or conclusive formation test are considered proved.

Saturation, Appliance or Customer: The number of specified appliances, or users, divided by the basic units or total potential of the universe involved, i.e., Gas Heating Saturation related to customers is the total number of customers with space heating divided by the total number of customers. Saturation should not be used alone but should be associated with customers, families, households, population or other qualifying terms indicating the universe referred to. For industry statistics, saturation based on customers served is used.

Sendout, Gas: Total gas produced, purchased (including exchange gas receipts), or net withdrawn from underground storage within a specified time interval, measured at the point(s) of production and/or purchase, and/or withdrawal, adjusted for changes in local storage quantity. It comprises gas sales, exchange deliveries, gas used by company and unaccounted for gas. Expressed in various units such as therms, Btu's, cubic feet, etc.

Sendout, Maximum Day: The greatest actual total gas sendout occurring in a specified 24-hour period. Compare Design Day; Peak Day.

Sendout, Minimum Day: The smallest actual total gas sendout occurring in a specified 24-hour period.

APPENDIX A

Service (Service Line, Service Pipe): The pipe which carries gas from the main to the customer's meter. Compare Class of Service.

Shrinkage, Natural Gas: The reduction in volume of wet natural gas due to the extraction of some of its constituents, such as hydrocarbon products, hydrogen sulfide, carbon dioxide, nitrogen, helium, and water vapor.

Storage, Buried Pipe (Bottle-Type Holder): A system of storage in especially designed high pressure pipe sections or bottles capable of storing natural gas at pressures near or equal to the pressure of maximum super-compressibility. Not storage in ordinary steel pipe.

Storage, Local: The storage facilities, other than underground storage, that are an integral part of a distribution system, i.e., on the distribution side of the city gate, whether for manufactured, mixed, natural, liquefied petroleum, or liquefied natural gases.

Storage Mains: Those mains used primarily for injection and withdrawal of gas to and from underground storage.

Storage, Underground: The utilization of subsurface facilities for storing gas which has been transferred from its original location for the primary purposes of load balancing. The facilities are usually natural geological reservoirs such as depleted oil or gas fields or waterbearing sands sealed on the top by an impermeable cap rock. The facilities also may be manmade or natural caverns.

Aquifer Storage: The storage of gas underground in porous and permeable rock stratum, the pore space of which was originally filled with water and in which the stored gas is confined by suitable structure, permeability barriers and hydrostatic water pressure.

Base Gas (Also called cushion gas): The total volume of gas which will maintain the required rate of delivery during an output cycle.

Current Gas: The total volume of gas in a storage reservoir which is in excess of the base gas. Also called Working Gas.

Extraneous Gas: See Stored Gas, this section.

Foreign Gas: See Stored Gas, this section.

Native Gas: The total volume of gas indigenous to the storage reservoir.

Storage Reservoir: That part of the storage zone having a defined limit of porosity and/or permeability which can effectively accept, retain, and deliver gas.

Storage Well: A cased bore hole, extending from the surface into the storage zone, which is used primarily for gas input and/or output purposes.

Stored Gas: Gas physically injected into a storage reservoir.

Ultimate Reservoir Capacity: The total estimated volume of gas that could be contained in storage reservoir when it is developed to the maximum design pressure.

Working Gas: Gas in an underground storage field that is available for market. May also be called Current Gas.

Straight Gas Utility: Company which derives the major portion of its total operating revenues from gas operations. For purposes of A.G.A. statistics, a straight gas utility derives at least 95 percent of its total operating revenues from gas operations. See Combination Gas Utility.

Subbituminous Coal: Ranking of soft coal generally having a heating value of 8,300–13,000 Btu's/lb-high volatile matter and ash.

Substitute Natural Gas: See Gas, Natural.

System Type:

Distribution: Generally mains, services, and equipment which carry or control the supply of gas from the point of local supply to and including the sales meters. The system operates at various pressures as indicated below.

High Pressure: A system which operates at a pressure higher than the standard service pressure delivered to the customer; thus, a pressure regulator is required on each service to control pressure delivered to the customer. Sometimes this is referred to as medium pressure.

Low Pressure or Utilization Pressure: A system in which the gas pressure in the mains and service lines is substantially the same as that delivered to the customers' appliances; ordinarily a pressure regulator is not required on individual service lines.

Field and Gathering: A network of pipelines (mains) transporting natural gas from individual wells to compressor station, processing point, or main trunk pipeline.

Main: The network of distribution piping to which customers' service lines are attached. Generally large pipes are laid in principal streets with smaller laterals extending along side streets and connected at their ends to form a grid; sometimes laterals are brought to dead ends. Compare with Distribution, this section.

Transmission: Pipelines (Mains) installed for the purpose of transmitting gas from a source or sources of supply to one or more distribution centers, or to one or more large volume customers, or a pipeline installed to interconnect sources of supply. In typical cases transmission lines differ from gas mains in that they operate at higher pressures, are longer, and the distance between connections is greater.

Tcf: 1,000,000,000,000 cubic feet; Trillion cubic feet.

Therm: A unit of heating value equivalent to 100,000 British thermal units (Btu).

Transmission Company, Gas: A company which obtains at least 90 percent of its gas operating revenues from sales for resale and/or transportation of gas for others and/or main line sales to industrial customers *and* classifies at least 90 percent of mains (other than service pipe) as field and gathering, storage and/or transmission. Compare Distribution Company, Gas; Integrated Company, Gas. See Appendix C for a partial list of Transmission companies.

Transmission Pipeline: See System Type.

Transmission System: See System Type.

Transportation Volumes to End-Users: Volumes of gas owned by the ultimate consumer (end-user) and delivered to the ultimate consumer's meter by the transporter.

Ultimate Customer: The customer who purchases gas for consumption and not for resale purposes.

Ultimate Reservoir Capacity: See Storage, Underground.

Unaccounted for Gas: The difference between the total gas available from all sources and the total gas accounted for as sales, net interchange and company use. This difference includes leakage or other actual losses, discrepancies due to meter inaccuracies, variations of temperature and/ or pressure, and other variants, particularly due to measurements being made at different times. In cycle billings, an amount of gas supply used but not billed as of the end of a period. Compare Sendout, Gas.

Underground Storage: See Storage, Underground.

Water Gas (Blue Gas): Made by passing steam over hot coke or other carbonaceous material; it consists of carbon monoxide and hydrogen with varying amounts of carbon dioxide and nitrogen. It burns with a blue flame.

Well, Wildcat: An exploratory well being drilled in unproven territory, that is, in a horizon from which there is no production in the general area.

Wet Natural Gas: See Gas, Natural.

Working Gas: See Storage, Underground.

APPENDIX B
CONVERSION TABLE

The following are some frequently used units of measure and natural gas equivalents in British thermal units (Btu). Read "=" as "contains" between volumes and energy units.

The national average Btu content per cubic foot is used. For state averages, see page 76.

1 Cubic Foot (cf) = 0.02832 Cubic Meters = 1,025.0 Btu
1 Therm = 100,000 Btu ≅ 25,200 Kilocalories ≅ 100 Cubic Feet
1 Mcf = 1,000 Cubic Feet = 28.32 Cubic Meters = 1,025,000 Btu
1 M Therm = 100,000,000 Btu ≅ 25,200,000 Kilocalories
1 MMcf = 1,000,000 Cubic Feet = 1,025,000,000 Btu

Conversion examples:
(1) To convert 2,325 MMcf to trillions of Btu:
    (2,325 MMcf) (1,025,000,000 Btu/MMcf)
        = 2,383,125,000,000 Btu
        ≅ 2.383 trillion Btu
(2) To convert 5,000 trillion Btu to millions of cubic feet:
    (5,000 trillion Btu) (1 cf/1,025.0 Btu)
        ≅ 4.878 trillion cf (Tcf)
        ≅ 4,878,049 MMcf
(2) To convert 22,150 million therms to trillions of Btu:
    (22,150 million therms) (100,000 Btu/therm)
        = 2,215,000,000 million Btu
        = 2,215 trillion Btu
(4) To convert the Btu content of 1 cubic foot at 15.05 psia to 14.73 psia:
    (1,025.0 Btu/cf) (14.73 psia/15.05 psia)
        ≅ 1,003.2 Btu/cf

For comparative purposes, Btu contents of various energy sources other than natural gas are shown below.*

Fuel Oil (barrel)	
Distillate	5,825,000 Btu
Residual	6,287,000 Btu
Coal (short ton)	
Bituminous and lignite	21,164,000 Btu
Anthracite	21,278,000 Btu
Electricity (kilowatt-hour)	3,412 Btu
Natural gas liquids (barrel)	3,804,000 Btu

* Department of Energy, Energy Information Administration, *Monthly Energy Review*, September 1993.

APPENDIX C
COMPANY LISTINGS

Shown below are 100 selected companies, 25 for each company type, as used in the financial and other sections of this publication. These lists are *not* meant to be *comprehensive.* Inclusion on this list does not imply individual company data may be released.

Distribution

Alabama Gas Corporation
Atlanta Gas Light Company
Berkshire Gas Company, The
Boston Gas Company
Brooklyn Union Gas Company, The
City Gas Company of Antigo, WI
Commonwealth Gas Company
Elizabethtown Gas Company
Equitable Resources Inc.
Michigan Gas Utilities Company
Minnegasco, Inc.
Mississippi Valley Gas Company
New Jersey Natural Gas Company
North Shore Gas Company
Northwest Natural Gas Company
Peoples Gas Light and Coke Company
Peoples Gas System, Inc.
Providence Gas Company
Southern Connecticut Gas Company, The
Southwest Gas Corporation
Valley Gas Company
Washington Gas Light Company
Washington Natural Gas Company
Wisconsin Gas Company
Wisconsin Natural Gas Company

Transmission

Alabama Tennessee Natural Gas Co.
Algonquin Gas Transmission Company
ANR Pipeline Company
Colorado Interstate Gas Company
Columbia Gas Transmission Corporation
Columbia Gulf Transmission Company
East Tennessee Natural Gas Company
El Paso Natural Gas Company
Enron Corporation
Great Lakes Transmission Company
Midwestern Gas Transmission Company
Natural Gas Pipeline Co. of America
Northwest Pipeline Corporation
Pacific Gas Transmission Company
Panhandle Eastern Pipe Line Company
Southern Natural Gas Company
Texas Eastern Transmission Corporation
Texas Gas Transmission Corporation
Transcontinental Gas Pipe Line Corp.
Transok Pipe Line Company
Transwestern Pipeline Company
Trunkline Gas Company
United Gas Pipeline Company
Valero Transmission Company
Western Gas Supply Company

Integrated

Arkansas Louisiana Gas Company
Arkansas Oklahoma Gas Corporation
Arkansas Western Gas Company
Battle Creek Gas Company
Columbia Gas System Inc.
Corning Natural Gas Company
East Ohio Gas Company, The
Enserch Corporation
Enstar Natural Gas Company
Great Plains Natural Gas Company
Greeley Gas Company
Intermountain Gas Company
KN Energy, Inc.
Michigan Consolidated Gas Company
National Fuel Gas Company
National Gas & Oil Corporation
North Carolina Natural Gas Corporation
North Penn Gas Company
Ohio Valley Gas Corporation
Oklahoma Natural Gas Company
Peoples Natural Gas Co., The
Public Service Company of North Carolina, Inc.
Vermont Gas Systems, Inc.
West Ohio Gas Company
Western Kentucky Gas Company

Combination

Baltimore Gas and Electric Company
Central Illinois Light Company
Cincinnati Gas and Electric Company
Consolidated Edison Co. of NY Inc.
Consumers Power Company
Dayton Power & Light Company
Florida Public Utilities Company
Illinois Power Company
Iowa Electric Light & Power Company
Iowa-Illinois Gas & Electric Company
Long Island Lighting Company
Louisville Gas & Electric Company
Madison Gas & Electric Company
Montana-Dakota Utilities Company
Montana Power Company
Niagara-Mohawk Power Corporation
Northern Indiana Public Service Company
Pacific Gas & Electric Company
Philadelphia Electric Company
Public Service Co. of Colorado
Public Service Electric & Gas Company
San Diego Gas & Electric Company
Washington Water Power Company
Western Resources
Wisconsin Public Service Corporation

APPENDIX D
GAS REQUIREMENTS COMMITTEE, NATURAL GAS CONSUMPTION

The Gas Requirements Committee (GRC) is a subcommittee of the Gas Demand Committee, a board-level committee of the American Gas Association. The GRC has been publishing reports on gas consumption since 1964, and is considered one of the three major sources of comprehensive data on natural gas consumption. The Energy Information Agency (EIA) within the U.S. Department of Energy and the American Gas Association are the other two. The Statistics and Load Forecast Methods Committee of the A.G.A. has decided to include the GRC data on natural gas consumption in this edition as part of the effort to continually improve the usefulness of the data provided in *Gas Facts.*

Comparison of consumption figures published by the three above-mentioned sources for any given year would result in some discrepancies. Certainly one reasonable explanation is that the three groups use different methods in the collection and compilation of natural gas consumption data. The major differences are caused by varying definitions, sample sizes, and points of measurement.

The GRC measure of consumption is defined as adding together the end-use consumption of all gas users including company use, unaccounted for gas and field use on a national basis only. The EIA measure of consumption is defined as the sum of deliveries to consumers, lease and plant fuel, and pipeline fuel. The A.G.A. measure of consumption is restricted to sales to consumers that are made by gas utility companies *only* and, therefore, is a subset of total United States gas consumption.

It is not the intention of the Statistics and Load Forecast Methods Committee to reconcile the differences among the reported consumption data. Rather, the reader should be aware that three sources of data exist. If the reader wishes to further analyze the GRC or EIA consumption data, it is reported in the GRC *Future Gas Consumption in the United States* reports or the EIA *Natural Gas Annual* reports.

The subsequent pages excerpt the following information from GRC publications: United States gas consumption by state, region and class of service—1991, total industrial consumption by standard industrial classification—1991, and United States gas consumption by class of service, 1977–1991. At the time of printing, 1992 data were not yet available.

1991
UNITED STATES GAS CONSUMPTION BY STATE, REGION & CLASS OF SERVICE

(Millions of Cubic Feet)[a]

		Firm			
	Region and State	Residential	Commercial	Industrial	Electric Utilities
(1)	**United States Total**				
(2)	**Field Use**				
(3)	**Total Excluding Field Use**	**4,594,434**	**2,380,404**	**3,357,203**	**1,345,756**
(4)	**1. New England**	**159,978**	**95,043**	**36,080**	**27,902**
(5)	Connecticut	35,408	21,264	11,489	0
(6)	Maine	722	1,860	967	0
(7)	Massachusetts	98,232	58,870	17,223	11,965
(8)	New Hampshire	5,611	5,037	1,390	0
(9)	Rhode Island	17,861	6,607	4,959	15,937
(10)	Vermont	2,144	1,405	52	0
(11)	**2. Appalachian**	**1,325,397**	**610,142**	**396,168**	**8,404**
(12)	Delaware	7,217	4,299	4,668	0
(13)	District of Columbia	15,129	5,784	247	0
(14)	Kentucky	57,022	29,552	15,171	169
(15)	Maryland	69,390	27,102	11,173	132
(16)	New Jersey	182,954	97,735	26,909	4,009
(17)	New York	339,325	162,399	65,342	1,836
(18)	Ohio	323,978	139,845	145,297	243
(19)	Pennsylvania	249,095	104,276	113,874	2,015
(20)	Virginia	50,417	26,735	6,814	0
(21)	West Virginia	30,870	12,415	6,673	0
(22)	**3. Southeast**	**274,875**	**183,779**	**203,701**	**151,686**
(23)	Alabama	57,871	24,366	36,363	9
(24)	Florida	12,922	34,290	33,567	144,102
(25)	Georgia	94,855	38,659	16,390	0
(26)	North Carolina	37,907	24,634	27,006	0
(27)	South Carolina	21,014	13,767	36,194	7,187
(28)	Tennessee	50,306	48,063	54,181	388
(29)	**4. Great Lakes**	**1,083,268**	**473,435**	**446,157**	**64,334**
(30)	Illinois	476,792	215,988	256,425	4,173
(31)	Indiana	148,951	62,829	57,115	1,267
(32)	Michigan	340,076	129,372	102,617	58,747
(33)	Wisconsin	117,449	65,246	29,960	147
(34)	**5. Northern Plains**	**261,274**	**147,054**	**67,862**	**1,416**
(35)	Iowa	78,658	40,820	45,142	898
(36)	Minnesota	116,386	60,802	17,065	377
(37)	Nebraska	44,649	31,230	4,161	141
(38)	North Dakota	10,853	7,839	98	0
(39)	South Dakota	10,728	6,363	1,396	0
(40)	**6. Mid-Continent**	**264,647**	**127,412**	**138,750**	**178,115**
(41)	Kansas	77,191	34,614	33,159	9,949
(42)	Missouri	117,744	54,425	23,723	31
(43)	Oklahoma	69,712	38,373	81,868	168,135
(44)	**7. Gulf Coast**	**338,861**	**217,586**	**1,791,440**	**832,883**
(45)	Arkansas	40,810	21,991	90,833	4,978
(46)	Louisiana	56,726	27,888	467,362	123,685
(47)	Mississippi	26,608	17,686	44,180	6,090
(48)	Texas	214,717	150,021	1,189,065	698,130
(49)	**8. Rocky Mountain**	**179,686**	**108,455**	**25,771**	**2,175**
(50)	Colorado	96,071	67,005	11,322	2,102
(51)	Montana	18,499	12,452	1,296	73
(52)	Utah	53,056	19,947	5,276	0
(53)	Wyoming	12,060	9,051	7,877	0
(54)	**9. Pacific Southwest**	**607,316**	**324,233**	**103,063**	**45,021**
(55)	Arizona	35,204	32,948	13,459	9,490
(56)	California	519,468	252,562	63,040	3,874
(57)	Nevada	20,637	15,330	8,730	22,195
(58)	New Mexico	32,007	23,393	17,834	9,462
(59)	**10. Pacific Northwest**	**99,132**	**93,265**	**148,211**	**33,820**
(64)	**Alaska**	13,608	27,379	58,121	33,699
(65)	**Hawaii**	578	2,366	38	0
(60)	Idaho	10,239	8,568	24,036	0
(61)	Oregon	26,925	22,826	13,838	8
(62)	Washington	47,782	32,126	52,178	113

a. Btu content equals 1,000 Btu per cubic foot.

APPENDIX D

1991 (Continued)

UNITED STATES GAS CONSUMPTION BY STATE, REGION & CLASS OF SERVICE

(Millions of Cubic Feet)[a]

	Interruptible				
Commercial	Industrial	Electric Utilities	Other	Total Consumption	
				19,485,295	**(1)**
				1,282,000	**(2)**
450,724	**3,912,904**	**1,562,984**	**598,886**	**18,203,295**	**(3)**
19,497	**42,715**	**73,015**	**15,462**	**469,692**	**(4)**
10,519	14,403	4,518	3,728	101,329	(5)
0	1,149	0	140	4,838	(6)
4,742	19,623	63,020	9,265	282,940	(7)
0	1,548	0	608	14,194	(8)
3,605	3,239	5,477	1,681	59,366	(9)
631	2,753	0	40	7,025	(10)
149,888	**519,370**	**305,832**	**155,835**	**3,471,036**	**(11)**
0	3,901	9,417	884	30,386	(12)
8,771	177	0	1,325	31,433	(13)
3,247	44,330	18	15,311	164,820	(14)
14,106	33,030	16,303	5,465	176,701	(15)
36,576	88,406	60,125	8,568	505,282	(16)
34,128	51,503	216,691	28,524	899,748	(17)
12,459	117,917	2,777	26,132	768,648	(18)
21,715	107,381	0	45,215	643,571	(19)
11,858	38,496	472	7,121	141,913	(20)
7,028	34,229	29	17,290	108,534	(21)
31,879	**499,406**	**65,511**	**42,871**	**1,453,708**	**(22)**
3,090	108,991	575	10,764	242,029	(23)
4,719	57,814	57,784	6,193	351,391	(24)
14,326	148,021	1,132	6,329	319,712	(25)
4,036	66,220	3,116	2,937	165,856	(26)
394	55,007	2,904	7,249	143,716	(27)
5,314	63,353	0	9,399	231,004	(28)
61,944	**394,181**	**21,309**	**29,926**	**2,574,554**	**(29)**
4,007	44,735	6,208	12,787	1,021,115	(30)
3,456	173,580	8,041	9,172	464,451	(31)
38,319	97,260	4,455	8,277	779,123	(32)
16,162	78,606	2,605	(310)	309,865	(33)
45,046	**152,737**	**7,740**	**10,501**	**693,630**	**(34)**
5,770	46,005	2,228	5,003	224,524	(35)
25,927	75,776	2,211	2,816	301,360	(36)
7,665	24,042	3,128	3,922	118,938	(37)
2,668	4,539	0	(1,315)	24,682	(38)
3,016	2,375	173	75	24,126	(39)
23,304	**241,333**	**40,529**	**65,831**	**1,079,921**	**(40)**
14,345	102,439	24,550	37,500	333,747	(41)
6,042	31,979	4,206	4,301	242,451	(42)
2,917	106,915	11,773	24,030	503,723	(43)
22,598	**1,216,293**	**556,672**	**170,944**	**5,147,277**	**(44)**
4,420	32,882	23,255	8,779	227,948	(45)
188	488,066	148,502	55,900	1,368,317	(46)
417	70,828	51,232	31,878	248,919	(47)
17,573	624,517	333,683	74,387	3,302,093	(48)
17,467	**74,133**	**10,223**	**16,628**	**434,538**	**(49)**
10,182	20,342	4,911	9,675	221,610	(50)
685	8,409	188	2,029	43,631	(51)
5,774	30,756	5,124	399	120,332	(52)
826	14,626	0	4,525	48,965	(53)
67,697	**684,496**	**470,989**	**88,709**	**2,391,604**	**(54)**
1,370	4,154	7,939	23,103	127,667	(55)
63,327	671,272	458,496	38,919	2,070,958	(56)
0	1,570	0	1,932	70,394	(57)
3,000	7,500	4,554	24,835	122,585	(58)
11,404	**88,240**	**11,164**	**2,099**	**487,335**	**(59)**
0	0	0	531	133,338	(64)
415	0	0	54	3,451	(65)
0	5,589	0	278	48,710	(60)
67	41,840	11,127	318	116,949	(61)
10,922	40,811	37	918	184,887	(62)

1991
TOTAL INDUSTRIAL CONSUMPTION BY STANDARD INDUSTRIAL CLASSIFICATION

(Millions of Cubic Feet)[a]

Group	Description	Region[b]			
		1	2	3	4
01–09	Agriculture & Forestry	1,313	1,518	303	2,108
10–14	Mining	1,218	9,115	3,390	1,216
15–17	Construction	532	1,601	54	1,282
20	Food Products	2,845	49,081	33,949	72,240
21	Tobacco Products	107	1,784	749	982
22	Textile Mills	4,370	10,759	60,775	1,439
23	Apparel	115	2,723	4,951	619
24	Wood Products	81	2,989	1,904	3,545
25	Furniture	225	1,573	1,320	4,280
26	Paper Products	7,696	43,392	84,202	58,700
27	Printing & Publishing	709	5,729	1,872	8,057
28	Chemicals	4,840	82,399	124,665	62,384
29	Petroleum	570	30,652	17,558	30,741
30	Rubber Plastics	1,587	13,937	13,481	13,355
31	Leather Products	231	1,488	26	1,428
32	Stone, Clay, Glass	4,226	68,305	73,163	38,806
331–332	Iron & Steel	1,613	135,646	42,538	162,796
333–339	Nonferrous Metals	1,820	41,557	20,206	25,626
34	Fabricated Metal	5,409	33,244	11,134	43,672
35	Machinery	2,675	20,014	3,595	31,588
36	Electric Equipment	2,955	22,646	6,789	17,236
37	Transportation Equipment	2,568	22,325	6,120	47,536
38	Instruments	1,601	4,609	1,729	2,288
39	Other Manufacturing	1,051	31,145	2,526	9,780
40–48	Transportation	92	3,815	149	4,213
49	Other Utility Services	209	23,029	578	9,177
	Not Classified/Unreported	28,137	250,463	185,381	185,244
	Total Consumption	**78,795**	**915,538**	**703,107**	**840,338**

[a] Btu content equals 1,000 Btu per cubic foot.

[b] For region definition see previous table on page 198.

1991 (continued)
TOTAL INDUSTRIAL CONSUMPTION BY STANDARD INDUSTRIAL CLASSIFICATION

(Millions of Cubic Feet)[a]

Region[b]							
5	6	7	8	9	10	Total	Group
664	2,467	17,108	367	4,283	698	30,829	01–09
670	3,605	50,584	2,356	211,627	703	284,484	10–14
435	1,203	2,016	212	937	189	8,461	15–17
46,945	17,688	37,414	14,242	66,438	31,450	372,292	20
0	0	0	5	0	0	3,627	21
10	270	794	89	5,837	234	84,577	22
65	95	3,532	135	697	97	13,029	23
2,554	9,166	32,050	434	3,256	20,363	76,342	24
398	200	1,208	152	702	70	10,128	25
12,202	2,132	120,399	3,382	44,087	46,672	422,864	26
978	187	831	405	1,984	290	21,042	27
15,556	143,968	1,464,452	16,239	43,361	18,447	1,976,311	28
2,198	44,498	526,489	16,158	186,773	70,408	926,045	29
1,680	3,554	8,029	1,152	3,755	5,496	66,026	30
111	10	434	21	115	18	3,882	31
7,800	26,099	57,564	6,028	34,679	9,159	325,829	32
1,882	5,293	21,402	13,348	8,242	4,500	397,260	331–332
6,265	2,774	56,092	9,092	35,917	11,088	210,437	333–339
3,090	4,870	16,964	1,096	9,015	1,095	129,589	34
4,744	723	3,558	1,613	3,368	817	72,695	35
1,165	3,181	5,483	819	5,268	1,159	66,701	36
602	10,627	6,697	3,036	9,497	5,168	114,176	37
716	37	483	1,262	1,012	475	14,212	38
281	2,614	10,067	428	726	1,574	60,192	39
246	5,885	3,911	194	833	486	19,824	40–48
1,036	8,829	30,449	23	72,431	2,518	148,279	49
108,306	80,108	529,723	7,616	32,719	3,277	1,410,974	
220,599	**380,083**	**3,007,733**	**99,904**	**787,559**	**236,451**	**7,270,107**	

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NAME ______________________________

TITLE ______________________________

COMPANY ______________________________

ADDRESS ______________________________

____

____

A.G.A. MEMBER YES_____ NO_____

UNITED STATES GAS CONSUMPTION BY CLASS OF SERVICE, 1977–1991

(Millions of Cubic Feet)[a]

	Firm				Interruptible						
Year	Residential	Commercial	Industrial	Electric Utilities	Commercial	Industrial	Electric Utilities	Other	Total Excluding Field Use	Field Use	Total Consumption
1977	4,909,373	2,463,206	5,019,752	2,017,471	222,735	1,651,440	998,913	1,167,724	18,450,614	1,694,000	20,144,614
1978	5,132,207	2,746,861	6,486,614	2,926,048	b	b	b	1,304,150	18,595,880	1,679,000	20,274,880
1979	5,144,003	2,770,674	6,973,202	3,274,967	b	b	b	1,233,424	19,396,270	1,530,000	20,926,270
1980	4,868,509	2,363,209	5,167,578	2,161,516	247,205	1,967,741	1,430,447	1,354,737	19,560,942	1,053,000	20,613,942
1981	4,654,258	2,240,388	5,026,609	2,142,754	249,760	2,001,333	1,632,357	1,350,019	19,297,478	953,000	20,250,478
1982	4,708,934	2,303,029	4,045,749	1,927,775	270,952	1,655,883	1,346,773	1,141,246	17,400,341	1,140,000	18,540,341
1983	4,429,538	2,179,757	3,763,706	1,721,185	258,656	1,903,910	1,294,767	1,180,978	16,732,497	1,009,000	17,741,497
1984	4,632,219	2,297,317	3,861,396	1,683,711	291,848	2,097,198	1,515,668	960,594	17,339,951	1,110,000	18,449,951
1985	4,559,026	2,255,642	3,845,440	1,616,996	302,322	2,154,120	1,567,307	1,071,271	17,372,124	1,051,000	18,423,124
1986	4,427,780	2,190,161	3,414,110	1,623,445	324,072	2,049,168	1,238,241	1,112,099	16,379,076	972,000	17,351,076
1987	4,407,617	2,193,420	3,204,744	1,334,910	357,314	2,792,118	1,587,153	991,156	16,868,432	972,000	17,840,432
1988	4,711,724	2,321,364	2,804,233	1,113,494	438,018	5,087,818	1,570,155	780,755	17,257,406	1,192,000	18,449,406
1989	4,802,585	2,381,841	3,000,831	1,134,655	433,680	3,673,795	1,711,865	684,655	17,823,907	1,220,000	19,043,907
1990	4,481,837	2,284,615	3,124,578	1,370,325	448,397	3,694,455	1,422,546	604,072	17,430,825	1,254,000	18,684,825
1991	4,594,434	2,380,404	3,357,203	1,345,756	450,724	3,912,904	1,562,984	59,886	18,203,295	1,282,000	19,485,295

a. Btu content equals 1,000 Btu per cubic foot.

b. In 1978 and 1979, firm and interruptible service were not measured individually; therefore all consumption is included under firm for each class of service.